



PrismaSeT P

Catalog 2023
Cubicles up to 4000 A

Version 14



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Life Is On

Schneider
Electric



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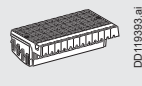
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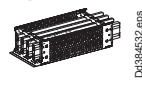


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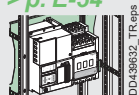
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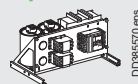
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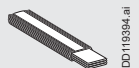
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PrismaSeT P - Reliable, Easily connected

The new PrismaSeT P switchboard is the market forerunner with built-in cloud connectivity, allowing instant access to smart alarm system, energy usage analysis, trends, and preventative maintenance plans. Built-in cloud connectivity allows users to be notified of the round-the-clock electrical distribution as well as voltage loss if any. This maximizes efficiency and power availability, while creating the basis for future innovations. The PrismaSeT P switchboard also allows easy wireless integration of sensors.

Offer values

-  **Simplicity**
 - Deliver connectivity without any complexity
-  **Easy installation**
 - Simple-to-install connected solution
-  **Robustness and Design**
 - New design with new structure color, increased frame and door robustness
-  **Win more business**
 - Increase the service business opportunities while offering an affordable connected panel
-  **Protection**
 - Deliver greater peace of mind



Digital journey

Peace of mind on the Cloud

- Electrical Fire Prevention
- Power availability at no cost
- Energy awareness



Easy-to-install 100% wireless communication solutions

- User friendly installation instructions
- Independent from customer IT

Built-in connectivity

- Voltage loss alert free of charge
- Connection to cloud in less than 5 min without any IT skill

Easy installation and commissioning

- Less than 30 minutes for setting up the communication devices

PrismaSeT P - Reliable, Easily connected

New design with sustainable packaging

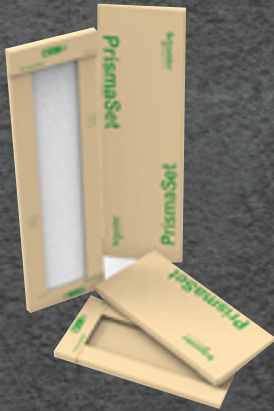
Enhance buildings with in-built connectivity and efficient design

The new design of PrismaSeT P increases the robustness of the panels, helps to gain efficiency on every level and provides peace of mind to the panel builders, electrical contractors and facility managers.

In addition, the new 100% green packaging decreases the quantity of waste and its disposal cost by using only cartons.

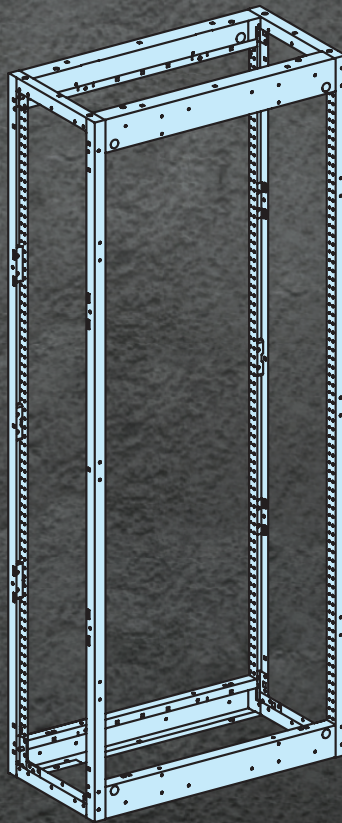
Green Packaging

- Progressive cancellation of plastic and polystyrene of packaging.
- 100% recyclable cardboards.
- Time & money saving to sort waste.
- New cross beam in cardboard for a more robust packaging.



Reinforced Frame

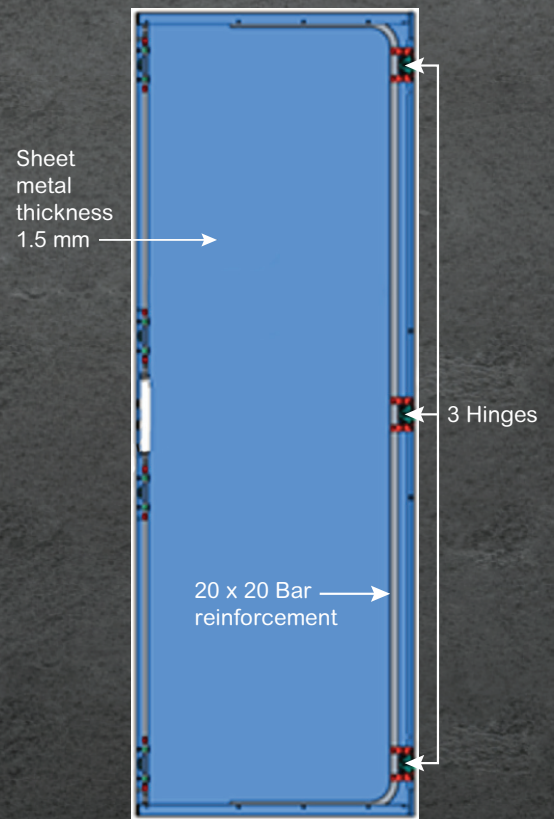
- Easier transportation and perception during assembly.
- Reinforcement on the lower angle levels using additional accessories.



Reinforced Plain Door

- 3 hinges
- Sheet metal thickness 1.5 mm
- 20 x 20 bar reinforcement

IP 30/31 Plain Door



New Improved Handle

- More robust handle.
- Keyless entry door.
- Ergonomic and Aesthetically handle design.



Digital Instruction Sheets

- Cancellation of systematic printed instruction in each packaging.
- 1 printed 'Super Leaflet' with all instructions (available to order once).
- 1 systematic QR code to link to the right instruction sheets.



PrismaSeT P - Reliable, Easily connected

The new **PrismaSeT** switchboard is the market forerunner with built-in cloud connectivity, allowing instant access to smart alarm system, energy usage analysis, trends, and preventative maintenance plans. Built-in cloud connectivity allows users to be notified of the round-the-clock electrical distribution as well as voltage loss if any. This maximizes efficiency and power availability, while creating the basis for future innovations. The **PrismaSeT** switchboard also allows easy wireless integration of sensors.

PowerLogic HeatTag
• Cable Overheating Alert



The PowerLogic HeatTag sensor is a revolutionary new product designed for fire prevention in switchboards. It uses proactive heating detection technology to drastically reduce the risk of fire.

ComPacT NSX
• With wireless Auxiliary Contact



New ComPacT NSX circuit breaker redefines and enhances customer experience through seamless connectivity along with game-changing user interface.

Acti9 AFDD Connect
• Arc Fault detection on Load cables



Acti9 AFDD Connect is most advanced protection available with all-in-one function providing connectivity and diagnostics.

PowerLogic PowerTag
• From 1 to 6300 A



PowerTag Energy is a wireless communication energy sensor that provides precise, real-time data on energy, currents, power, voltage, and power factor.



Wireless Sensor for Early Detection of Overheating Cables



SMT10020

HeatTag is a smart sensor for early detection of overheating wire connections or overheating cables. HeatTag helps prevent electrical switchboards from being damaged, by analyzing gas and particles in the air and sending alerts before any smoke or insulator browning.

Standards

The HeatTag smart sensor complies with the following standards:

- IEC 61010-1:2017 UL/CSA/EU CENELEC deviations
- IEC/EN 61326-1b FCC Part 15B and 15C
- ETSI/EN 300328
- ETSI/EN 301489-1
- IEEE 802.15.4

Note:

Do not use HeatTag as a safety device. HeatTag does not replace the fire protection devices of the building.

Presentation

HeatTag smart sensor:

- Sends three levels of alert depending on the severity of the situation it detects.
- Helps prevent potential fire damages by analyzing gas and micro-particles emitted by cable sheaths when overheating.
- Measures temperature and humidity.
- Communicates with all Schneider Electric EcoStruxure panel servers or gateways.
- Is integrated in EcoStruxure solutions.

The HeatTag sensor must be installed only in non-forced air ventilated switchboards. It must be mounted on a DIN rail.

During the first 30 minutes after powered on, HeatTag can generate an alert for test. It then takes another 8 hours for HeatTag to define its nominal environment and to be fully operational. Each time the HeatTag sensor is powered on, these 30-minute and 8-hour sequences are repeated.

Operation

Paired with Schneider Electric panel servers or gateways, HeatTag reports:

- Alerts
- Air quality index
- Temperature and humidity measurement
- Self-diagnosis information

Air Quality

HeatTag provides an air quality index, ranging from 0 to 10, and displays the air quality evolution trend in a table.

When the air quality index is equal to 10, HeatTag sends an alert. It has detected abnormal cable sheath heating in the switchboard.

Detection Alert

An alert is triggered when HeatTag detects abnormal cable sheath heating in the switchboard, which can be caused by:

- One or more loose connections (too high contact resistance)
- A poorly sized cable compared to the rated current
- Overcurrent and poorly regulated protective equipment

Alerts are triggered with three severity levels:

- Low level: a cable is slowly overheating in the installation, you must plan a maintenance visit of the installation.
- Medium level: a cable is overheating in the installation, you must go quickly to the installation for maintenance.
- High level: a cable overheats very quickly, you must check the installation immediately.

The orange application led flashes when HeatTag sends an alert to the panel servers or gateways.

Temperature

HeatTag provides a temperature value with a 30 second default transmission period. The transmission period can be increased by the system in case of high wireless data traffic.

Humidity

The HeatTag provides a humidity rate with a 30 second default transmission period. The transmission period can be increased by the system in case of high wireless data traffic.

Self-Diagnosis

HeatTag carries out two types of diagnosis:

- A minor alert is sent when the fan rpm is 80% of its nominal rpm, which means fan clogging.
- A major alert is sent when HeatTag is faulty. In this case it cannot report measures at all, nor reports incorrect measures.

Wireless Sensor for Early Detection of Overheating Cables

HeatTag Smart Design

- No settings
- Nominal environment auto-learning to avoid false alerts
- Concentrator auto-discovery
- Alerts generated by a powerful algorithm integrated in HeatTag

Electrical Characteristics

| | |
|-----------------------------------|-----------------------------------|
| Supply voltage | 110-277 VAC, -15 % / +15 % |
| Frequency | 50-60 Hz |
| Max. consumption | 0.1 A |
| Operating temperature | -15 °C / +70 °C (5 °F to 158 °F) |
| Storage temperature | -20 °C / +85 °C (-4 °F to 185 °F) |
| Relative humidity in operation | 15-90 % |
| Altitude of use | 0-2000 m (0-6500 ft) |
| Degree of pollution (IEC 60664-1) | 3 |
| Oversvoltage category | OVC III |

Sensor Characteristics

| | | |
|---------------------------------|-----------------------------|---|
| Temperature measurement | Measurement range | -15 °C / +70 °C (5 °F to 158 °F) |
| | Measurement accuracy | -1.1 °C / +1.1 °C |
| | Default transmission period | 30 seconds (higher in case of high wireless data traffic) |
| Humidity measurement | Measurement range | 15-90 % |
| | Measurement accuracy | ±9 RH % |
| | Default transmission period | 30 seconds (higher in case of high wireless data traffic) |
| Air quality | | Index (0 to 10), alert generation when index = 10 |
| Test alert after pairing | | During the first 30 minutes after powered on |
| Environment auto-learning phase | | 8 hours after the first 30 minutes |

Installation

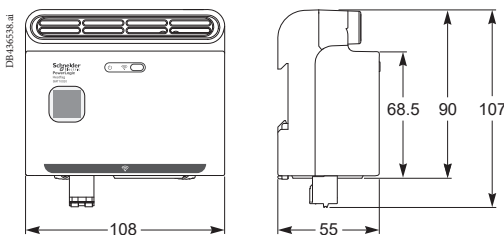
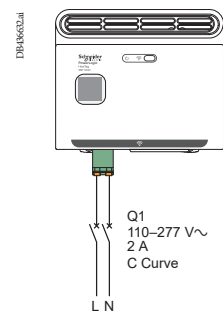
Communication Architecture

List of compatible communicators:

- EcoStruxure Panel Servers
- PowerTag Link

Wiring

HeatTag must be protected by 2 A breaker. It is delivered with a separate connector.



Mechanical Characteristics

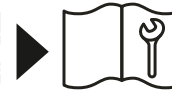
| | |
|----------------------------------|-------------------|
| Dimensions (w x h x d) | 108 x 107 x 55 mm |
| Weight | 270 g |
| Degree of protection (IEC 60529) | IP30 |

Wireless Sensor for Early Detection of Overheating Cables

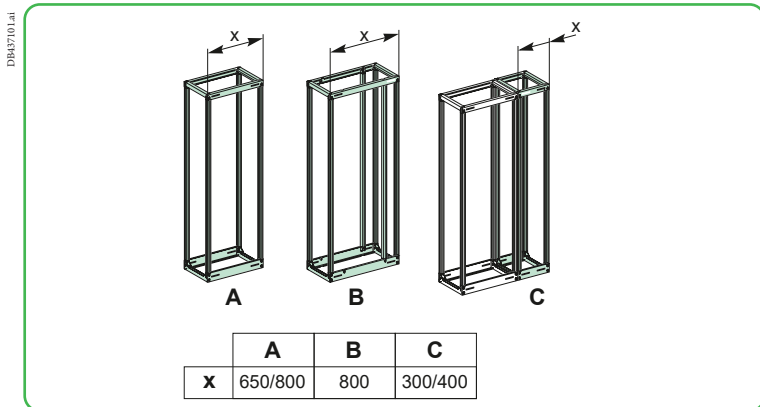
Integration in PrismaSeT P

HeatTag must be installed following the Instruction Sheet recommendations (MFR5173801-02).

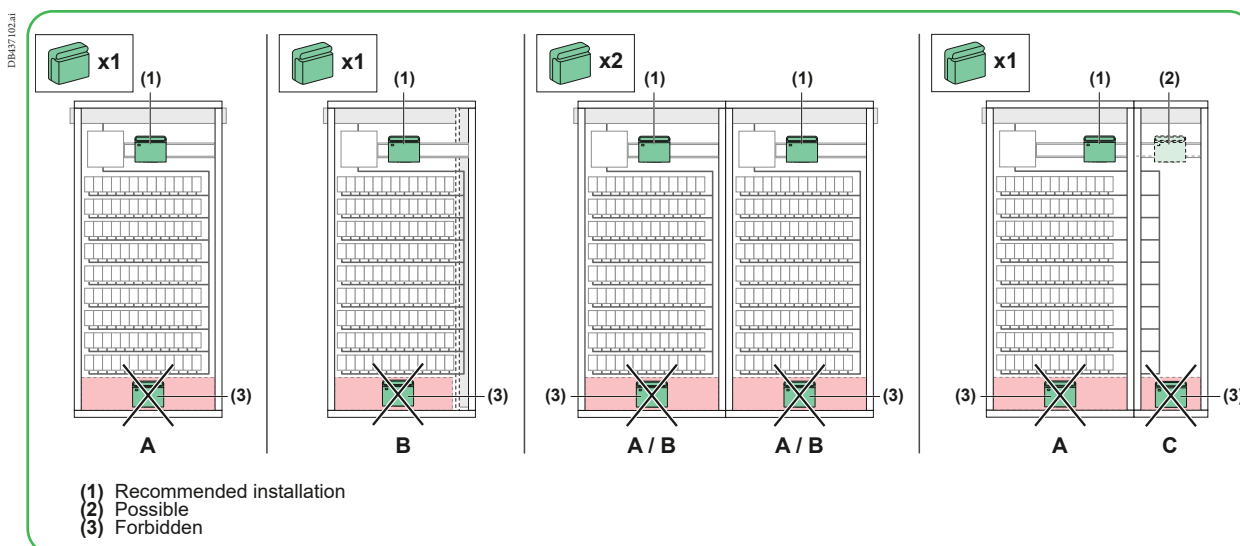
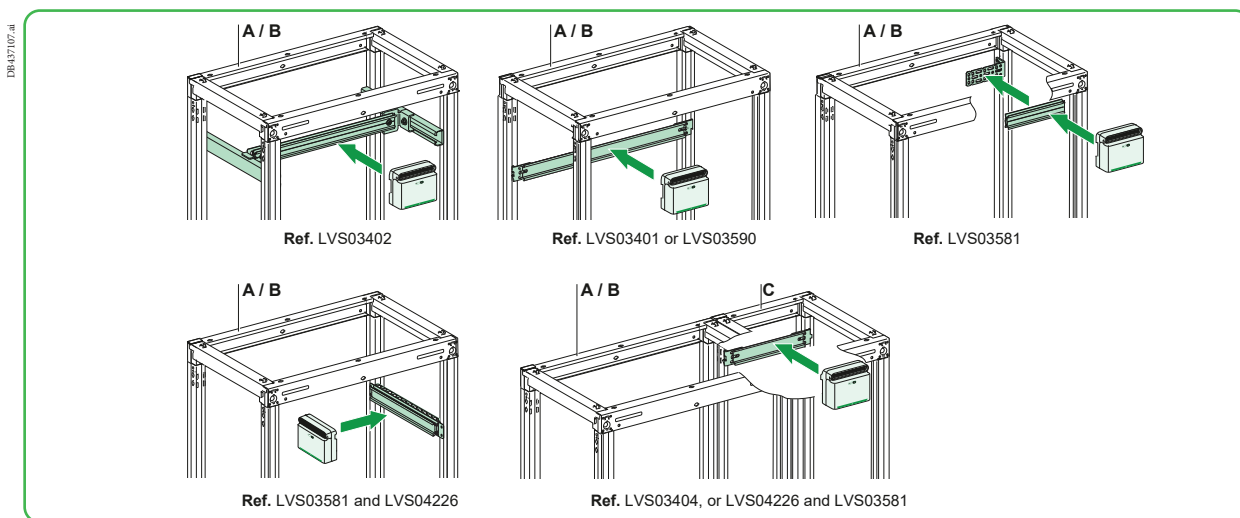
DB437105.ai



MFR5173801-02



HeatTag must be installed on a DIN rail.



PrismaSeT G enclosures up to 630 A IP30, IP40, IP41, IP43, IP55



250 A

PrismaSeT G Pack 250

- Schools
- Small shops
- Hotels, etc.



630 A

- Small companies
- Buildings
- Offices
- Laboratories
- Healthcare centres
- Hotels
- Supermarkets
- Malls, etc.

PrismaSeT G



PrismaSeT P cubicles up to 4000 A IP30, IP31, IP55

The optimised, tested and IEC compliant solution, for low voltage electrical distribution and control switchboards.



B

- Hospitals
- Data centres
- Logistics centres
- Shopping centres
- Offices buildings
- Medium industrial solutions

PrismaSeT P



Energy management has never been simpler

Smart Panels connect you to energy savings in three steps.

1. Measure

Embedded and stand-alone metering & control capabilities

- Embedded and stand-alone metering
- Control capabilities

2. Connect

- Integrated communication interfaces
- Ready to connect to energy management platforms

3. Act

- Data-driven energy efficiency actions
- Real time monitoring and control
- Access to energy and site information through on-line services



Tested, Validated, Documented Smart Panels architecture
 Smart Panels have been certified via Schneider Electric's "TVDA" quality process
 Tested in performance labs by experts, in the most common configuration
 Validated full functional compatibility of devices
 Documented, with user guide, predefined CAD panel designs & wiring diagrams

The switchboard, central to the electrical installation

Both the point of arrival of energy and a device for distribution to the site applications, the LV switchboard is the intelligence of the system, central to the electrical installation.

It plays an essential role in the availability of electric power, while meeting the needs of personal and property safety. Its definition, design and installation are based on precise rules; there is no place for improvisation. The IEC 61439 standard aims to better define "low-voltage switchgear and controlgear assemblies", ensuring that the specified performances are reached. It specifies in particular:

- the responsibilities of each player, distinguishing those of the original equipment manufacturer; the organization that performed the original design and associated verification of an assembly in accordance with the standard, and of the assembly manufacturer - the organization taking responsibility for the finished assembly;
- the design and verification rules, constituting a benchmark for product certification.

All the component parts of the electrical switchboard are concerned by the IEC 61439 standard. Equipment produced in accordance with the requirements of this switchboard standard ensures the safety and reliability of the installation.

A switchboard must comply with the requirements of standard IEC 61439-1 and 2 to guarantee the safety and reliability of the installation. Managers of installations, fully aware of the professional and legal liabilities weighing on their company and on themselves, demand a high level of safety for the electrical installation.

What is more, the serious economic consequences of prolonged halts in production mean that the electrical switchboard must provide excellent continuity of service, whatever the operating conditions.

The Schneider Electric solution

- Specify switchboards that comply with standard IEC 61439-1 and 2.
- Guarantee a level of safety that has been 100 % tested, from the day the switchboard is installed and throughout its service life.
- Ensure a lasting investment through easy upgrading of the installation in compliance with the standard.
- Guarantee that the switchboard complies with the technical specifications.

PrismaSeT tested switchboards

The conformity of the switchboard has been tested and proven.

A PrismaSeT switchboard is:

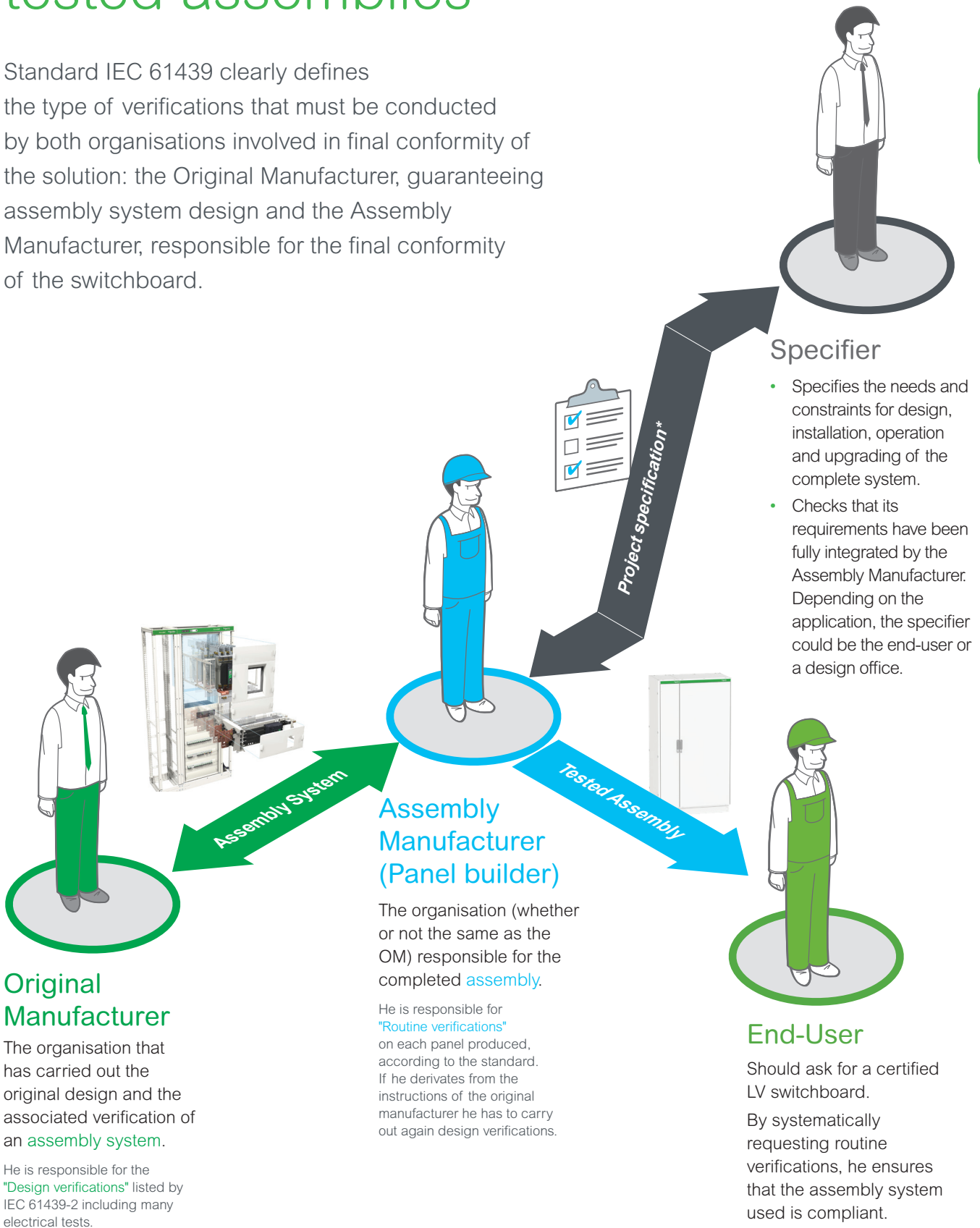
- made up of Schneider Electric low-voltage devices and components that all comply with the applicable standards;
- based on configurations in our Catalog;
- made up of PrismaSeT and Linergy mechanical and electrical components that have been subjected to the verification of original equipment manufacturer;
- mounted and wired by a panelbuilder in compliance with professional standards;
- subjected to the individual verification.

Schneider Electric makes available to the panelbuilder everything required to create tested PrismaSeT switchboards, including the basic configurations in the low voltage distribution Catalog, all the documentation for switchboard design and mounting, calculation and design software, etc.

Panelbuilders can demonstrate conformity with standard IEC 61439-1 and 2 by presenting the declarations or certificates of conformity for type tests carried out by independent laboratories (ASEFA, ASTA, etc.) and supplied by Schneider Electric. The panelbuilder is responsible for the individual routine verification and delivers the corresponding declarations of conformity.

Original Manufacturer and Assembly Manufacturer: Both involved in tested assemblies

Standard IEC 61439 clearly defines the type of verifications that must be conducted by both organisations involved in final conformity of the solution: the Original Manufacturer, guaranteeing assembly system design and the Assembly Manufacturer, responsible for the final conformity of the switchboard.



B

The main 10 functions of standard IEC 61439

For each of the following 10 functions, the standard IEC 61439 requires design verifications from the system manufacturer - mainly through type-tests - and routine verifications on each panel from the Panel Builder to achieve 3 basic goals: safety, continuity of service and compliance with end-user requirements.



Safety

Voltage stresses withstand capability

To withstand long term voltages, and transient and temporary overvoltages according to the insulation coordination principles and requirements.

Current-carrying capability

To protect against burns and to withstand temperature rise:

- when any circuit is continuously loaded, alone, to the specified current
- when the assembly is loaded to the specified current according to the specified load pattern (between circuits and/or as a function of the time).

Short-circuit withstand capability

To withstand the stresses resulting from the prospective short-circuit current and from the associated data (High forces between conductors, temp. rise in a very short time, air ionization, overpressure).

Protection against electric shock

- Hazardous-live-parts not to be accessible (basic protection)
- Accessible conductive parts not to become hazardous-live (fault protection).

Protection against risk of fire or explosion

- Resistance to internal glowing elements

Note: protection of persons, and optional protection of the assembly, against arcing due to internal fault can be specified through a "special test" according to IEC 61641.



Continuity of service

Maintenance and modification capability

Capability to preserve continuity of supply without impairing safety during assembly maintenance or modification

- Electrical condition of the assembly or various circuits
- Speed of exchange of the functional units
- Test facilities...

Electro-Magnetic compatibility

To properly function (immunity) and not to generate EM disturbances (emission) in specified environmental conditions:

- Industrial networks or locations (Environment A)
- Domestic, commercial, and light industrial locations (Environment B).



Compliance with end-user requirements

Capability to operate the electrical installation

To properly function, according to:

- The electrical diagram of the overall system and related information (voltages, coordination...)
- The specified operating facilities (e.g. free or restricted access to Man Machine Interfaces, isolation of the outgoing circuits...).

Capability to be installed on site

- To withstand handling, transport, storage... and installation constraints
- Capability to be erected and connected (type of enclosure, type, material and cross sectional areas of external conductors).

Protection of the assembly against mechanical and atmospheric environmental conditions

- Presence of water or solid foreign bodies (IP according to IEC 60529)
- External mechanical impacts (optional IK according to IEC 62262)
- Indoor or outdoor installation (humidity, UV).

IEC 61439-1 paragraph 11.4

Protection against electric shocks and integrity of protection circuits

The following should be checked visually:

- presence of protective shields against direct and indirect contacts on live parts;
- presence of the PE conductor.

The continuity of protection circuits is ensured by compliance with the assembly instructions delivered with each product.

IEC 61439-1 paragraph 11.5

Integration of incorporated components

The assembly manufacturer must comply with the instructions of the original equipment manufacturer for installation and wiring of the components used.

IEC 61439-1 paragraph 11.6

Internal electric circuits and connections

Schneider Electric recommends marking the nut with a tinted acrylic lacquer, indelible and temperature-resistant.

This allows:

- not only self-checking to check effective tightening to torque;
- but also identification of any loosening.

IEC 61439-1 paragraph 11.9

Dielectric properties

The main circuits, and the auxiliary and control circuits connected to the main circuit, shall be subjected to the test voltage in accordance.

IEC 61439-1 paragraph 11.10

Wiring, operating performance and function

Verification of wiring and marking conformity with the drawings, parts list and diagram.

Standard individual check sheet

in accordance with the IEC 61439-1 and 2 standard from the assembly manufacturer (panelbuilder)

B

Job No.:

Switchboard No.:

Drawing No./Rev. No.:

| | Chapter | Verified |
|---|---------|--------------------------|
| Degrees of protection provided by enclosures | 11.2 | <input type="checkbox"/> |
| Insulation clearances and creepage distances | 11.3 | <input type="checkbox"/> |
| Protection against electric shocks and integrity of protection circuits | 11.4 | <input type="checkbox"/> |
| Integration of incorporated components | 11.5 | <input type="checkbox"/> |
| Internal electric circuits and connections | 11.6 | <input type="checkbox"/> |
| Terminals for external conductors | 11.7 | <input type="checkbox"/> |
| Mechanical operation | 11.8 | <input type="checkbox"/> |
| Dielectric properties | 11.9 | <input type="checkbox"/> |
| Wiring, operating performance and function | 11.10 | <input type="checkbox"/> |

Date of verification:

..... / /

Verifications performed by:

.....

Develop your business efficiency



Switchboards that are safe...

With PrismaSeT P you can be sure to build **100% Schneider Electric** switchboards that are safe, optimised:

- All components (switchgear, distribution blocks, prefabricated connections, etc.) are perfectly rated and coordinated to work together.
- All switchboard configurations, even the most demanding ones, have been tested.

You can prove that your switchboard meets the current standards, at any time.

You can be sure to build a reliable electrical installation and give your customers full satisfaction in terms of dependability and safety for people and the installation.



Tested low voltage switchboard, IEC 61439-1&2 compliant.



- Available power
- Safety of people and property
- Controlled costs and delivery times
- Upgradeability

with our functional LV systems

... optimised and upgradeable

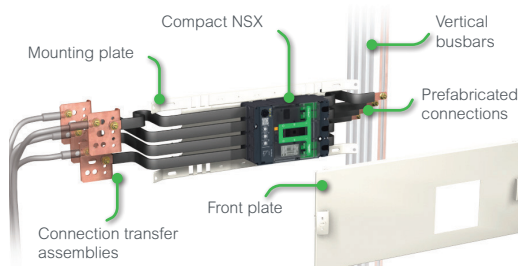
With PrismaSeT P you can build just the right switchboard for your customer, sized precisely to fit costs and needs. With this complete, prefabricated and tested system, it's easy to upgrade your installation and still maintain the original performance levels.

- The cubicles combine easily with switchboards already in service.
- Devices can be replaced or added at any time.



Straightforward organisation to make your job easier

The switchboard is structured by zones dedicated to switchgear, busbars, cables, etc.



The functional units are naturally stacking in the switchboard.

Each configuration is tested for improved safety.



Temperature rise test in laboratory.

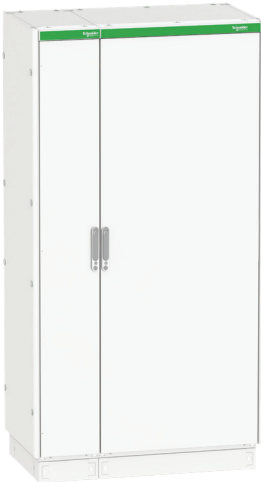
Readily available close by

The kit concept makes handling and transport easier and you get to benefit from Schneider Electric's efficient international logistics. Your distributor, selected by Schneider Electric, can give you the very best advice.

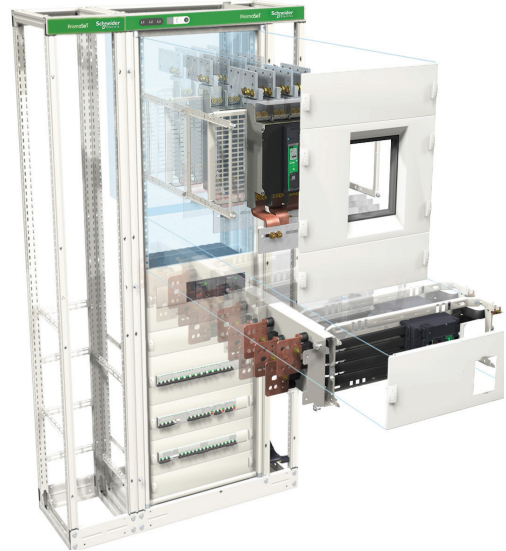
Electrical switchboards up to 4000 A

The PrismaSeT P functional system can be used for all types of low-voltage distribution switchboards (main, subdistribution and final) up to 4000 A, in commercial and industrial environments.

Configuration 6-v2.png



PD300150_SE_R.eps



Switchboard design is very simple

1. A metal structure

The switchboard is made up of one or more frameworks combined side-by-side or back-to-back, on which a complete selection of cover panels and doors can be mounted.

2. A distribution system

Horizontal busbars or vertical busbars positioned in a lateral compartment or at the rear of the cubicle are used to distribute electricity throughout the switchboard.

3. Complete functional units

- a dedicated mounting plate for device installation
- a front plate to block direct access to live parts
- prefabricated busbar connections
- devices for on-site connections.

Each functional unit contributes to a function in the switchboard.

The functional units are modular and are arranged rationally.

The system includes everything required for functional unit mounting, supply and onsite connection.

The components of the PrismaSeT P and those of the functional units in particular have been designed and tested taking into account device characteristics.

This design approach ensures a high degree of reliability in system operation and optimum safety for personnel.



Assets of PrismaSeT P switchboards

1. A dependable electrical installation

The total compatibility of Schneider Electric devices with the PrismaSeT P is a key advantage in ensuring a high level of installation dependability.

2. An upgradeable electrical installation

Thanks to modular design, PrismaSeT P switchboards can be modified easily to integrate new functional units as needed.

Maintenance operations, carried out with the switchboard de-energised, are fast and straight-forward due to easy access to devices.

3. Total safety for personnel

Work in a switchboard must be carried out by authorised persons in compliance with all applicable safety regulations.

To increase the safety of personnel, devices are installed behind protective front plates; only the operating handles are accessible.

Additional internal protection (partitions, barriers) is available to create form 2, 3 or 4 separation to protect against direct contacts with live parts.

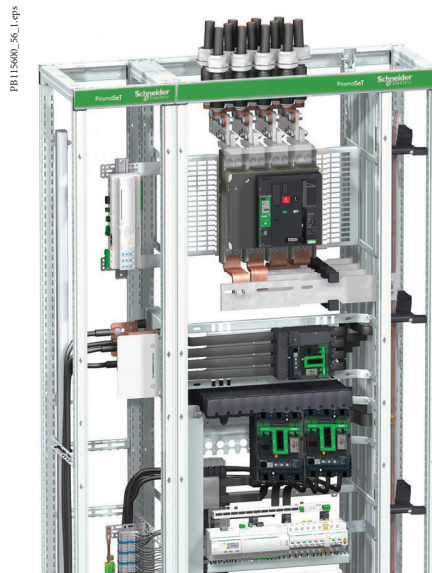
Terminal shields are mandatory for installation of Compact NSX and INS/INV devices in PrismaSeT P enclosures.

4. Connected solution

- Fire prevention
- Power availability
- Energy management

Electrical switchboards up to 4000 A

System design has been validated by type tests as per standards IEC 61439-1 and 2 and benefits from the combined experience of Schneider Electric customers over many years.



B

Electrical characteristics

Complying with standards IEC 62208 and EN 62208:

- rated insulation level of main busbars: 1000 V
- I_n : 4000 A
- rated peak withstand current I_{pk} : 220 kA
- rated short-time withstand current I_{cw} : 100 kA rms / 1 second
- frequency: 50/60 Hz
- voltage $U_e = 690$ V under conditions

Mechanical characteristics

- Steel sheet metal
- Cataphoresis treatment + hot-polymerised polyester epoxy powder, white colour RAL 9003
- Can be dismantled
- Can be combined side-by-side and back-to-back
- Degree of protection:
 - IP30: with IP30 cover panels including a door or a cover frame
 - IP31: with IP30 cover panels including a door + gasket
 - IP55: with IP55 cover panels
- Degree of protection against mechanical impacts:
 - IK07: with cover frame
 - IK08: with IP30 door
 - IK10: with IP55 door
- Framework dimensions:
 - four widths:
 - W = 300: cable compartment
 - W = 400: cable compartment or device compartment
 - W = 650: device compartment or cable compartment
 - W = 800: device compartment with busbar compartment or cable compartment
 - two depths: 400, 600 mm
 - height: 2000 mm.
- Indoor cubicles.



See "How to assemble an electrical switchboard"
Guide DESW043EN



Electrical switchboards built using the PrismaSeT P functional system and Schneider Electric recommendations fully comply with international standards IEC 61439-1 and 2.

PrismaSeT 6300 - LV switchboards for harsh environments up to 4000 A

When demanding applications and severe conditions require the best, assure your success with PrismaSeT 6300.



Technical characteristics

- High grade steel, durable epoxy painting techniques and ingenious design for a remarkable robustness.
- Steel sheet metal, thickness 1.5 mm on panels and 1.8 mm on doors.
- Electrophoresis treatment and hot-polymerised polyester epoxy powder.
- White color RAL 9003.
- Degree of protection: IP55 (IEC 60529).
- Degree of protection against mechanical impacts: IK10 with door (IEC 62262).
- Frame dimensions:
 - 2 widths:
 - 700 mm (for functional units)
 - 300 mm (for vertical busbars and cables ducts)
 - 2 depths:
 - 500 mm (up to 1600 A)
 - 800 mm (up to 4000 A)
 - height: 2000 mm.



Reinforced solution for low voltage switchboards up to 4000 A

More than PrismaSeT, PrismaSeT 6300 contributes to safety of persons as well as to reliability and continuity of service of the electrical installation. Thanks to its reinforced metal structure, it combines outstanding robustness with versatility and flexibility, by resisting to harsh environments and heavy loads. PrismaSeT 6300 is ready to perform in any condition.

As PrismaSeT, PrismaSeT 6300 is a solution of kit cubicles for low voltage electrical distribution switchboards:

- the components (switchgear, busbars, etc.) are designed for joint operation
- all the most demanding switchboard configurations have been tested and are IEC standard compliant.



Total safety and reliability

PrismaSeT 6300 is designed to operate up to 4000 A.

It is fully tested to perform in extreme conditions, and fully compliant with standards IEC 61439-1 and 2, IEC 62208.

PrismaSeT 6300 withstands seismic vibrations (Standard EDF CRT91C11200, AS1170, EAK 2000, ENDESA 1986, RPA 99 2003, Gore GR 63, Turkish Seismic Code, GOST 17516.1-90).

Seismic tests are performed by an external laboratory, CESI Labs. All documentation required by local authorities and customers in order to get the approval are available.

Seismic resistance for civil installations: 0.7 g APN (rms) and 3.5 g peak, without any extra accessories.



Solutions for continuity of service in electrical installations with PrismaSeT



The right level of continuity of service

All organizations have some sensitivity to the continuity of service of electrical power.

For some power is a vital component to their ongoing success and viability.

The required level of continuity of service must be considered for each application so that the electrical installation can be optimised accordingly.

The stakes of continuity of service are high. Even a brief electrical distribution failure can have serious consequences on many activities.

Continuity of service solutions for Operation, Maintenance, Evolution

All solutions proposed comply with standards EN 61439-1 and EN 61439-2.

The system solutions proposed include Schneider Electric products exclusively to fully ensure compatibility and operation.

To ensure safety, solutions with switchgear mounted on plug-in bases, withdrawable chassis and disconnectable or withdrawable mounting plates include safety trip levers that open the circuit breaker if it is removed in closed position.

B



For highest continuity of services

Functional units with devices on live-disconnectable mounting plates

Disconnectable IS 223:
(correspondence with standard IEC 61439-2: WFD)

- High continuity of service
- Maximum time to restore power after maintenance: 1 CEhour
- Live upgrading.

Functional units with devices on live-withdrawable mounting plates

Disconnectable IS 233: (correspondence with standard IEC 61439-2 : WWW)

- High continuity of service
- Maximum time to restore power after maintenance: 1/4 h
- Live upgrading.

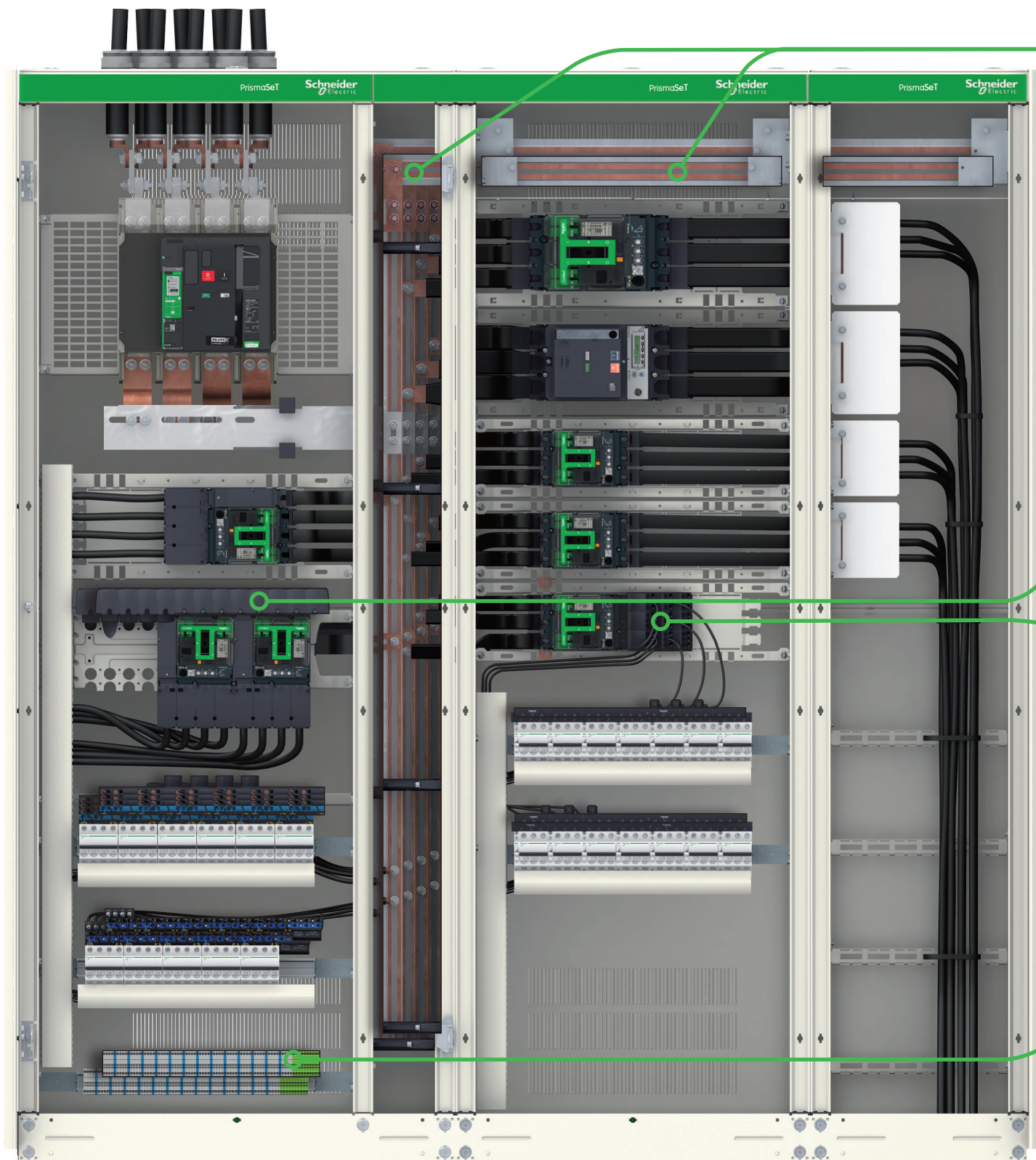


See Linergy HK "Hot plug distribution"

- Quick connections
- Panel easily upgradeable
- Reliable "hot plug" modification or upgrade (LVYED213001EN).



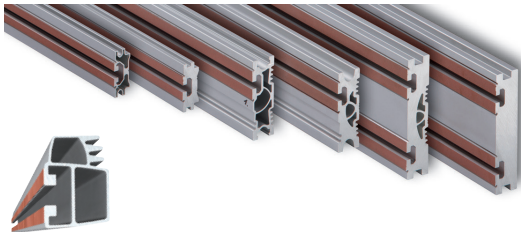
Linergy offers you smart power network



solutions for your switchboard.

Linergy LGY / LGYE / BS

Power busbars

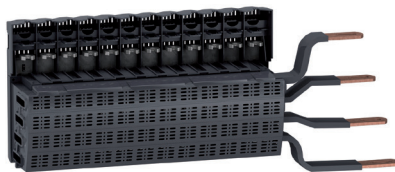


- Solutions available up to 4000 A
- Connection everywhere without drilling (with LGY and LGYE profile)

[page G-2 to G-5](#)

Linergy FC

Quick distribution blocks

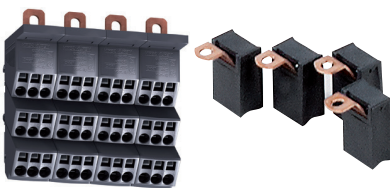


- Compact NSXm (4 x 4P / 5 x 3P) solution
- Compact NSX (3 x 4P / 4 x 3P) solution
- Reliable connection
- Quick connection system dedicated to Compact NSXm up to 160A / Compact NSX up to 250 A

[pages G-16, G-18](#)

Linergy DP

Distribution blocks

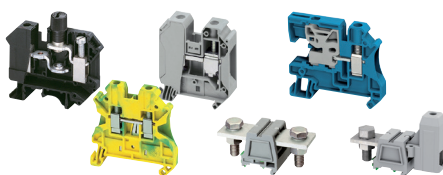


- Simplicity of use
- Quick connection system dedicated to Compact NSXm up to 160A / Compact NSX up to 250 A

[pages G-14, G-15](#)

Linergy TR

Terminal blocks and bars



- Simplicity of use
- Consistency and cross-functionality guaranteed

[page G-40](#)

Secure power distribution and monitoring solution for operating theatres

To ensure the safety of patients, the availability and quality of electric power are essential. The electrical installations of operating theatres should enable the continuity of healthcare in all circumstances.



A solution you can trust...

- All the components of this solution are designed, manufactured, and tested by Schneider Electric to operate together and be implemented by trained and approved partners.
- Schneider Electric provides maintenance plans and operating procedures linked to this solution.
- Schneider Electric ensure the continuity of the components throughout the installation's life.

... thanks to secure power distribution...

- The solution Schneider Electric incorporates an isolation transformer and a continuous insulation monitor in compliance with the required standards to ensure the supply of power to medical equipment in the event of a first insulation fault.
- The continuity of the electric power supply is ensured thanks to total coordination of all the Schneider Electric components, including and uninterruptible power supply.
- The Schneider Electric solution is designed, wired and tested to attenuate electromagnetic disturbances in accordance with the IEC 60364-4-41 standard.

... to event monitoring and traceability

The Schneider Electric solution incorporates a monitoring system to:

- inform maintenance and medical personnel in real time in the event of an electrical fault in the operating room
- monitor the operating room environment and record all environmental events and data
- provide data to the hospital building management system.



To know more, see the solution guide, ref. DESWED109024.



Enhancing patient safety

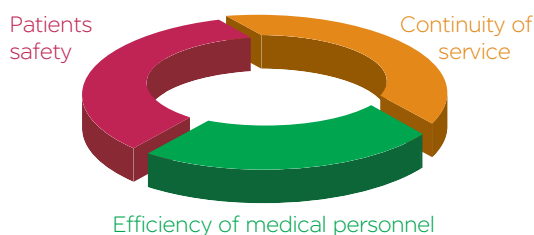
Ensuring the satisfactory operation of operating room is essential for a hospital.

Ensuring continuity of electrical service

Because nothing must disturb the medical team during operations.

Improving the efficiency of hospital personnel

A controllable environment and perfectly functioning equipment mean more comfort.





Green Premium™

Endorsing eco-friendly products in the industry



Green Premium™ Product

Green Premium is the only label that allows you to effectively develop and promote an environmental policy whilst preserving your business efficiency. This ecolabel guarantees compliance with up-to-date environmental regulations, but it does more than this.

Over 75% of Schneider Electric manufactured products have been awarded the Green Premium ecolabel



Discover what we mean by green ...

Check your products!

Schneider Electric's Green Premium ecolabel is committed to offering transparency, by disclosing extensive and reliable information related to the environmental impact of its products:

RoHS

Schneider Electric products are subject to RoHS requirements at a worldwide level, even for the many products that are not required to comply with the terms of the regulation. Compliance certificates are available for products that fulfil the criteria of this European initiative, which aims to eliminate hazardous substances.

REACH

Schneider Electric applies the strict REACH regulation on its products at a worldwide level, and discloses extensive information concerning the presence of SVHC (Substances of Very High Concern) in all of its products.

PEP: Product Environmental Profile

Schneider Electric publishes complete set of environmental data, including carbon footprint and energy consumption data for each of the lifecycle phases on all of its products, in compliance with the ISO 14025 PEP ecopassport program. PEP is especially useful for monitoring, controlling, saving energy, and/or reducing carbon emissions.

EoLI: End of Life Instructions

Available at the click of a button, these instructions provide:

- Recyclability rates for Schneider Electric products.
- Guidance to mitigate personnel hazards during the dismantling of products and before recycling operations.
- Parts identification for recycling or for selective treatment, to mitigate environmental hazards/ incompatibility with standard recycling processes.

Standards and certifications

Contents

Standards and tested switchboards

Standards

| | |
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| Regional standardization systems | C-2 |
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Enclosure characteristics

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Thermal characteristics of switchboards

Thermal management of switchboards

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| Comparative method | C-11 |
| Example | C-12 |
| Charts | C-14 |
| Ventilation | C-15 |
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Specific application

PrismaSeT P Seismic

| | |
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| Installation conditions | C-19 |

C

Standards

Regional standardization systems



Standards and tested switchboards

IEC international standards

IEC member countries

| | |
|-----------------|----------------|
| Argentina | Luxemburg |
| Australia | Malaysia |
| Austria | Mexico |
| Belarus | Netherlands |
| Belgium | New Zealand |
| Brazil | Norway |
| Bulgaria | Pakistan |
| Canada | Poland |
| China | Portugal |
| Croatia | Rumania |
| Czech Rep. | Russia |
| Denmark | Singapore |
| Egypt | Slovakia |
| Finland | Slovenia |
| France | South Africa |
| Germany | Spain |
| Greece | Sweden |
| Hungary | Switzerland |
| India | Thailand |
| Indonesia | Turkey |
| Iran | Ukraine |
| Ireland | United Kingdom |
| Israel | United States |
| Italy | |
| Japan | |
| Korea (Rep. of) | |

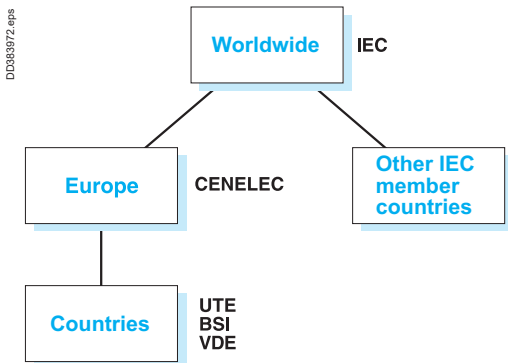
The IEC (International Electrotechnical Commission) is a worldwide organisation for standardisation comprising all national electrotechnical committees (IEC National Committees).

The object of the IEC is to promote international cooperation on all questions concerning standardisation in the electrical and electronic fields.

To that end, the IEC publishes International Standards.

Their preparation is entrusted to technical committees and any IEC National Committee interested in the subject dealt with may participate in the preparatory work.

Local standards



In Europe

The IEC documents are first studied by CENELEC, which establishes:

- either a European standard (EN), often identical to the IEC standard, which then becomes the applicable national standard in all the member countries
- or, in the event of differences, a harmonisation document (HD).

Other IEC member countries

Each country is autonomous and can accept the IEC standard as the national standard, with or without modifications.

Even though they are IEC members, countries such as Japan and the United States continue to develop their own standardisation systems.

Countries without a standardisation system

It is possible to refer to an IEC standard in the framework of a project.

CEI / IEC

Commission Electrotechnique Internationale

CENELEC

Comité Européen de Normalisation ELECTrotechnique

UTE

Union Technique de l'Électricité

VDE

Verband der Elektrotechnik, Elektronik und Informationstechnik

e.v. (German electrotechnical, electronics and computer technology standardisation organisation)

BSI

British Standards Institution

Standards

Standards types

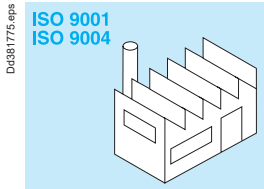


Standards and tested switchboards

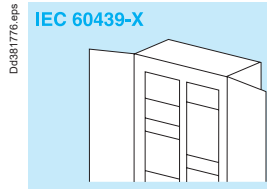
The different types of standards

There are different types of standards, including:

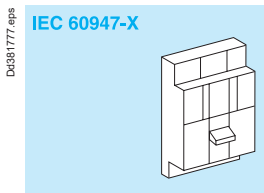
- management standards
- installation standards
- product standards.



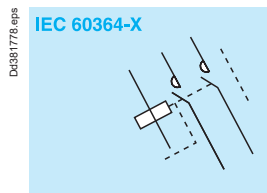
Design and manufacture.



Switchgear and controlgear assemblies.



Switchgear and controlgear.



Installation.

Management standards

ISO 9004: Quality-management systems - guidelines for performance improvements. Used in setting up a quality-management system.

ISO 9001: Quality management systems - requirements. Used for certification audits.

ISO 14004: Environmental-management systems. General guidelines on the principles, systems and supporting techniques.

ISO 14001: Environmental-management systems. Specification with guidance for use

- The majority of Schneider Electric development centres and factories are certified ISO 9001 and ISO 14001.

Installation standards

The set of IEC 60364-X standards defines the main principles and rules on:

- determining general characteristics of installations
- protection
- selection and installation of equipment
- verification and maintenance of installations.

Product standards

They apply to devices or assemblies and are aimed at ensuring correct operation and safety of the concerned products.

■ standards on low-voltage switchgear and controlgear:

- IEC 60947-1: general rules
- IEC 60947-2: circuit breakers
- IEC 60947-3: switches and disconnectors
- IEC 60947-4: contactors
- IEC 62208: empty enclosures.

■ standards on low-voltage switchgear and controlgear assemblies:

- IEC 61439-1: general rules
- IEC 61439-2: power switchgear and controlgear assemblies
- IEC 61439-3: distribution boards
- IEC 61439-4: assemblies for construction sites
- IEC 61439-5: assemblies for power distribution
- IEC 61439-6: busbar trunking systems.

Regulations in a given country may make certain standards legally binding and may also create additional safety requirements.

In addition to providing proof of the conformity of its quality-management system, a product manufacturer can demonstrate the quality of products by providing proof that the design and manufacture comply with the requirements in the applicable standard.

Proof of conformity may be a declaration by the manufacturer or a certificate supplied by an independent organisation.



Standards and tested switchboards

CE marking

CE marking is a regulatory symbol attributed under the sole responsibility of the manufacturer and intended for the verification authorities of the European countries that enforce the European regulations.

It allows free circulation of a product in the European Union and certifies that it complies with the basic requirements in all the applicable European directives. CE marking is not a quality symbol and does not indicate conformity with a standard.

The CE declaration is intended exclusively for the authorities in charge of verifying compliance with the applicable regulations and it is drafted, signed and held for presentation to the authorities by the manufacturer.

For the PrismaSeT P range, the declaration is the responsibility of the Schneider Electric

unit that has designed and developed the product.

For LV switchboards, the declaration is the responsibility of the panelbuilder.

The following products receive CE marking:

- all products that are liable to endanger the safety of persons, animals and property (LV directive)
- all products likely to emit electromagnetic disturbances above a standardised threshold or to be disturbed during operation (EMC directive).

Consequences:

- the PrismaSeT P range falls under the LV directive only
- LV switchboards are covered by the LV directive and may also fall under the EMC directive, depending on the type of devices incorporated.



For the PrismaSeT P range, CE marking is applied:

- on the packing of “mechanical” components
- on the product itself for “electrical” components.

For the LV assemblies created by the panelbuilder, CE marking is applied:

- on the packing
- on the rating plate (if applicable)
- on one of the documents accompanying the switchboard when it is shipped.



Standards and tested switchboards

Degree of protection

Standard IEC 60364-5-51 lists and codifies a large number of external influences to which electrical installations can be subjected, including the presence of water, solid objects, shocks, vibrations, corrosive substances, etc.

IP code

Standard IEC 60529 (IP code, February 2001) indicates the degrees of protection provided by an enclosure for electrical devices against access to hazardous parts, against penetration of solid foreign objects and against penetration of water.

These standards do not apply for the protection against the risks of explosion or conditions such as a humidity, corrosive vapour, fungus or vermin.

The IP code is made up of two characteristic numerals and can include an additional letter when the actual protection for persons against access to the hazardous parts is better than that indicated by the first numeral.

The first numeral characterises the protection provided against the ingress of solid foreign objects and the protection of persons.

The second numeral characterises the protection provided against the ingress of water with harmful effects.

| 1 st numeral | | 2 nd numeral | | |
|-------------------------|--|--|---|---|
| Protection of persons | | Protection against ingress of solid objects | | |
| 1 | Protected against access with back of hand Dc381959.eps | Protection against solid foreign objects larger than 50 mm Dc381959.eps | 1 | Protected against vertically dripping water (condensation) Dc381966.eps |
| 2 | Protected against access with a finger Dc381960.eps | Protection against solid foreign objects larger than 12.5 mm Dc381963.eps | 2 | Protected against dripping water up to 15° from vertical Dc381967.eps |
| 3 | Protected against access with a tool Dc381961.eps | Protection against solid foreign objects larger than 2.5 mm Dc381964.eps | 3 | Protected against spraying water up to 60° from vertical Dc381968.eps |
| 4 | Protected against access with a wire Dc381962.eps | Protection against solid foreign objects larger than 1 mm Dc381965.eps | 4 | Protected against splashing water from all directions Dc381969.eps |
| 5 | Protected against access with a wire Dc381962.eps | Protected against dust (dust protected) Dc381964.eps | 5 | Protected against water jets from all directions Dc381970.eps |
| 6 | Protected against access with a wire Dc381962.eps | Dust tight Dc381965.eps | 6 | Protected against powerful water jets from all directions Dc381971.eps |
| | | | 7 | Protected against the effects of temporary immersion in water Dc381972.eps |
| | | | 8 | Protected against the effects of continuous immersion in water Dc381973.eps |
| | | | 9 | Protected against close-range high pressure, high temperature spray downs Dc381974.eps |



Standards and tested switchboards

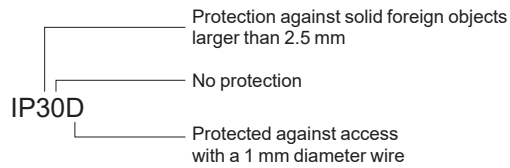
Additional letter

The additional letter is used only if the actual protection of persons is higher than that indicated by the first characteristic numeral of the IP code.

| Additional letter | Protection |
|-------------------|---|
| A | Protected against access with back of hand |
| B | Protected against access with a 12 mm diameter finger |
| C | Protected against access with a 2.5 mm diameter tool |
| D | Protected against access with a 1 mm diameter wire |

If only the protection of persons is of interest, the two characteristic numerals are replaced by the letter "X", e.g. IPXXB.

Illustration of the above explanations:



Remarks

- The degree of protection IP must always be read and understood numeral by numeral and not as a whole. For example, an IP31 wall-mount enclosure is suitable for an environment that requires a minimum degree of protection IP21. However an IP30 wall-mount enclosure is not suitable.
- the degrees of protection indicated in this Catalog are valid for the enclosures as presented. However, the indicated degree of protection is guaranteed only when installation and device mounting are carried out in accordance with professional standards that conserve the initial degree of protection.

IK code

Standard IEC 62262 defines an IK code characterising the capacity of products to resist mechanical impacts from all sides.

| IK code | Impact energy (joules) |
|---------|------------------------|
| 01 | 0.14 |
| 02 | 0.2 |
| 03 | 0.35 |
| 04 | 0.5 |
| 05 | 0.7 |
| 06 | 1 |
| 07 | 2 |
| 08 | 5 |
| 09 | 10 |
| 10 | 20 |

IK codes can be selected according to the risks of impacts on a given site.

| | Site | Recommended IK |
|--|--------------------|----------------------------|
| No risk of major impact | Technical premises | 07 |
| Significant risk of impact that can damage devices | Hallways | 08 (switchboard with door) |
| Maximum risk of impact that can damage the switchboard | Workshops | 10 |

Properties of metal enclosures

Enclosure characteristics

Anti-corrosion withstand

Schneider Electric enclosures comply with standard IEC 62208, EN 50298 for empty enclosures. The sheet metal used for Schneider Electric enclosures receives an anti-corrosion cathodolysis primer treatment and a coating of a thermosetting, polyester-resinmodified epoxy powder for colour and appearance. This two-coat system provides excellent finish and corrosion protection. The characteristics of this coating are much better than those of traditional epoxy powders:

- improved colour stability
- wider operating temperature range.

Mechanical properties of frame

Static load on doors, wall-mounted and floor-standing enclosures and cubicles

| | |
|--------------|--------|
| Cubicle | 400 kg |
| Cubicle door | 12 kg |

Mechanical properties of powder coated surfaces

Test conditions

Test piece made of 1 mm thick steel sheet, degreased, iron phosphated, final rinsing with 100 kΩ cm DI water, 15 microns of anti-corrosion electrophoresis treatment and 35 microns of powder paint.

| | | |
|-------------------------------------|------------------|------------|
| Adhesion (cross-hatch and pull-off) | class 0 required | (ISO 2409) |
| Impact strength (1) | > 1 kg/50 cm | (ISO 6272) |
| Mandrel bending test (2) | < 10 mm | (ISO 6860) |
| Persoz hardness | 300 s | (ISO 1522) |

(1) No cracking of the paint film after dropping a weight of 1 kg on the test piece from a height of 50 cm.

(2) Film cracks over a length of 10 mm maximum.

Artificial ageing test on powder coating

Test conditions:

Two tests carried out on the same 1 mm thick steel sheet test piece.

- cyclical damp-heat test:
 - as per standard IEC 68-2-30
 - six 24-hour cycles at temperatures higher than 40 °C
- continuous resistance to neutral salt mist:
 - the tests were carried out over a period of 400 hours, far more than the 48 hours required by the standard for indoor installations
 - as per standard IEC 68-2-11 and ISO 7253
 - 400 hours without blistering for normal surface on test piece
 - 250 hours for a scratched surface.

Evaluation of corrosion as per ISO 4628:

- adhesion: class ≤ 1
 - blistering: degree 1 dim. 1
 - rusting: Ri 1
 - cracking: class 1
 - flaking imp. 1 dim. 1
- propagation of corrosion under scratch with respect to the scratch axis: 3 mm max.

Properties of metal enclosures

Enclosure characteristics

Chemical properties of powder coating

Tests carried out at ambient temperature on phosphated test pieces coated with a 150 to 200 micron film.

| Test duration (months) | | 2 | 4 | 6 | 8 | 10 | 12 |
|------------------------|-----------------------|---|---|---|---|----|----|
| Acids | Concentration | | | | | | |
| | Acetic 20 % | | | | | | |
| | Sulphuric 30 % | | | | | | |
| | Nitric 30 % | | | | | | |
| | Phosphoric 30 % | | | | | | |
| | Hydrochloric 30 % | | | | | | |
| | Lactic 10 % | | | | | | |
| | Citric 10 % | | | | | | |
| Bases | Soda 10 % | | | | | | |
| | Ammonia 10 % | | | | | | |
| Water | Distilled water | | | | | | |
| | Seawater | | | | | | |
| | Tap water | | | | | | |
| | Diluted bleach | | | | | | |
| Solvents | Petrol | | | | | | |
| | High alcohols | | | | | | |
| | Aliphatics | | | | | | |
| | Aromatics | | | | | | |
| | Ketones, esters | | | | | | |
| | Tri-perchloroethylene | | | | | | |

 Film intact.

 Film damaged (blisters, yellowing, loss of shine).

Thermal management of switchboards

General

Thermal characteristics of switchboards

A switchboard is designed for operation under normal ambient conditions. Most devices do not operation correctly outside a temperature range of -10 and +70 °C.

It is therefore important to maintain the switchboard internal temperature within this temperature range by:

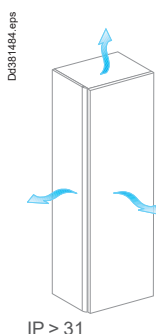
- correctly sizing the switchboard during design
- correcting the temperature using suitable means.

Management of the internal temperature

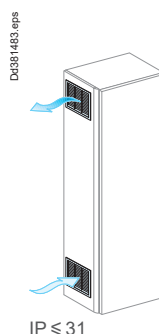
Cooling

There are a number of way to dissipate heat from the switchboard. The drawings below present the various means.

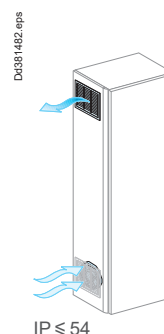
Convection



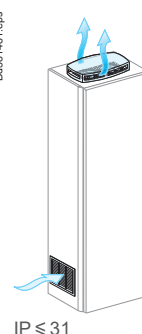
Ensured naturally in PrismaSeT P enclosures.



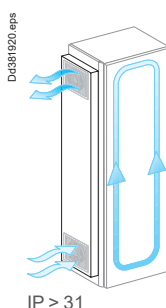
Forced-air ventilation



Using fans, it significantly increases the thermal capacity of an enclosure.

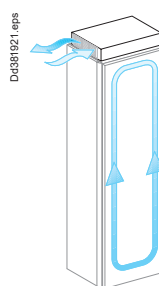


Forced-air ventilation with air-air exchanger



On special request.

Forced convection and cooling



For these extreme cases, many installers prefer to set up the switchboards with other electrotechnical and electronic devices in air-conditioned electrical rooms.

Heating

The means employed to raise the internal temperature in a switchboard is a resistor-based heater, used to:

- avoid condensation by limiting variations in temperature
- ensure that the switchboard does not freeze.

Thermal management of switchboards

General

Thermal characteristics of switchboards

Calculation of the internal temperature

Calculation of the temperature is the means to check that the enclosure can evacuate the dissipated power of the installed devices.

Important note

Correct thermal management of the switchboard depends on compliance with the installation requirements for the distribution system (power circuits).

Incorrect installation will have major consequences on the connected device, but almost none on the internal temperature of the enclosure.

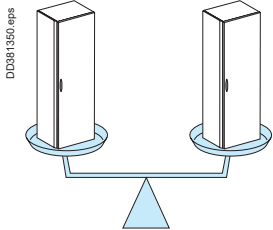
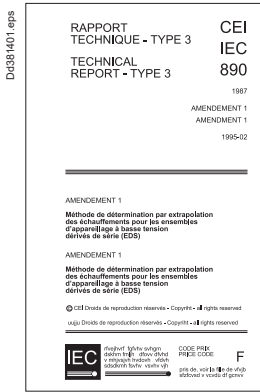
Once the circuit has been correctly sized, it is necessary to check whether the assembly (devices + distribution system + cables) have a level of dissipated power $P(W) \leq$ the $P(W)$ that the enclosure can handle.

Method defined by IEC 890 technical report

This IEC guide for switchboards proposes a calculation method to determine three levels of internal temperature, depending on the dissipated power of the devices and distribution blocks installed in the switchboard.

Users can consult this document when it is necessary to determine precisely the internal temperature in view of optimising the switchboard.

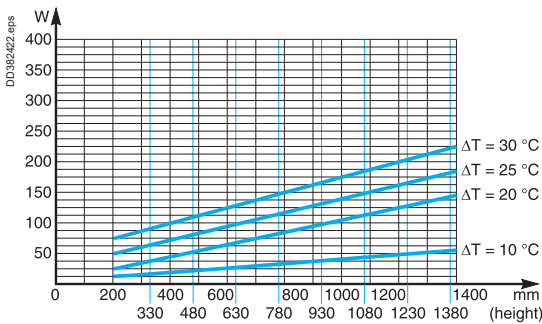
On request, Schneider Electric can carry out a thermal study to check that the installed assembly and the thermal capacity of the enclosure are compatible.



Comparative method

A number of qualified and tested configurations serve as the basis for indicating the thermal capacity of PrismaSeT P enclosures.

This is an empirical means to check whether the dissipated power of the desired configuration is close to that of a tested configuration.



Method using charts taking into account enclosure characteristics

To speed up calculations, Schneider Electric produces charts based on the company's experience and a number of assumptions on the installation.

They can be used sufficiently precisely to determine the variations in temperature and the dissipated-power levels for the different types of wall-mounted enclosures, floor-standing enclosures and cubicles.

For details on the calculation of the dissipated power in the device zone, see page C-12.

Thermal management of switchboards

Comparative method

Thermal characteristics of switchboards

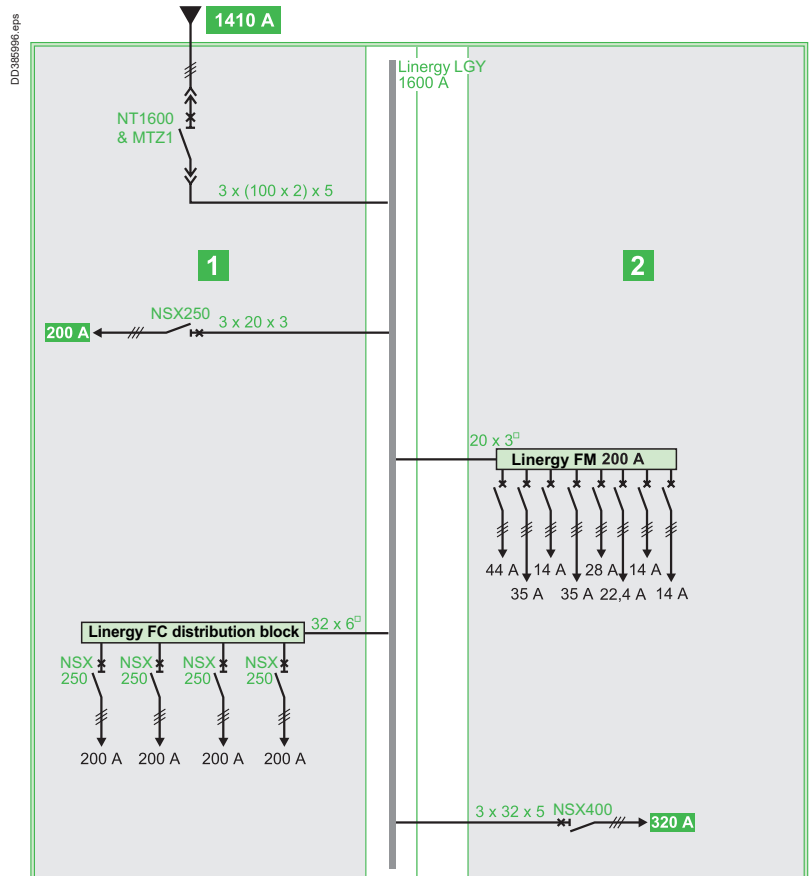
Two cubicles with busbar compartment, 800 mm wide, 400 mm deep, IP30

Diversity factor: 0.7 and 0.8

Ambient temperature around the switchboard: 35 °C

Cubicle **1**: P(W) of device zone = 580 W

Cubicle **2**: P(W) of device zone = 180 W



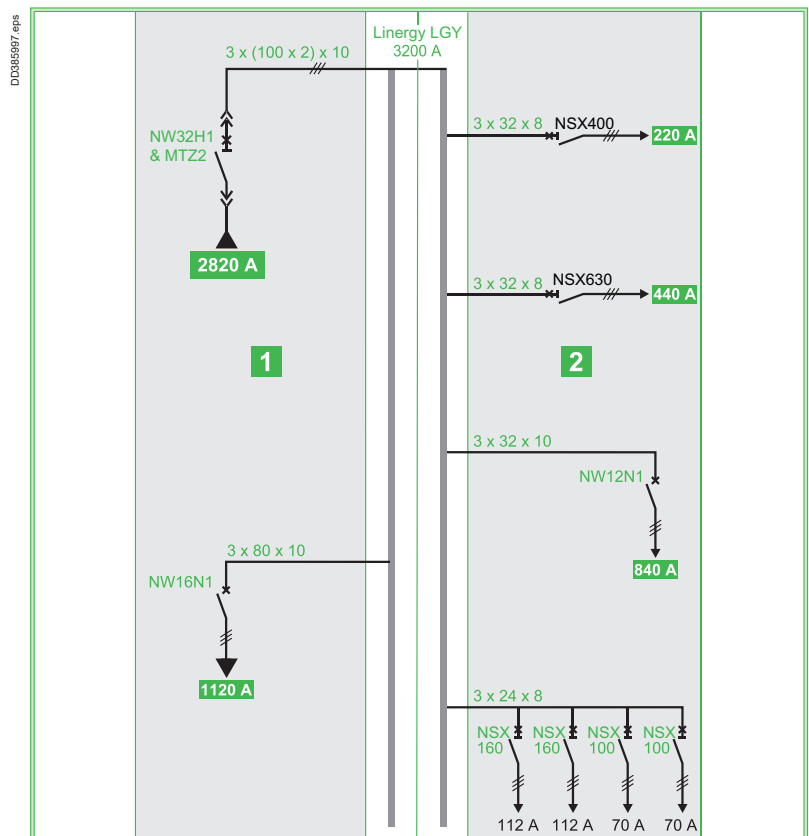
Two cubicles with busbar compartment, 800 mm wide, 1000 mm deep, two 300 mm wide ducts, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

Cubicle **1**: P(W) of device zone = 880 W

Cubicle **2**: P(W) of device zone = 330 W



Thermal management of switchboards

Example

Thermal characteristics of switchboards

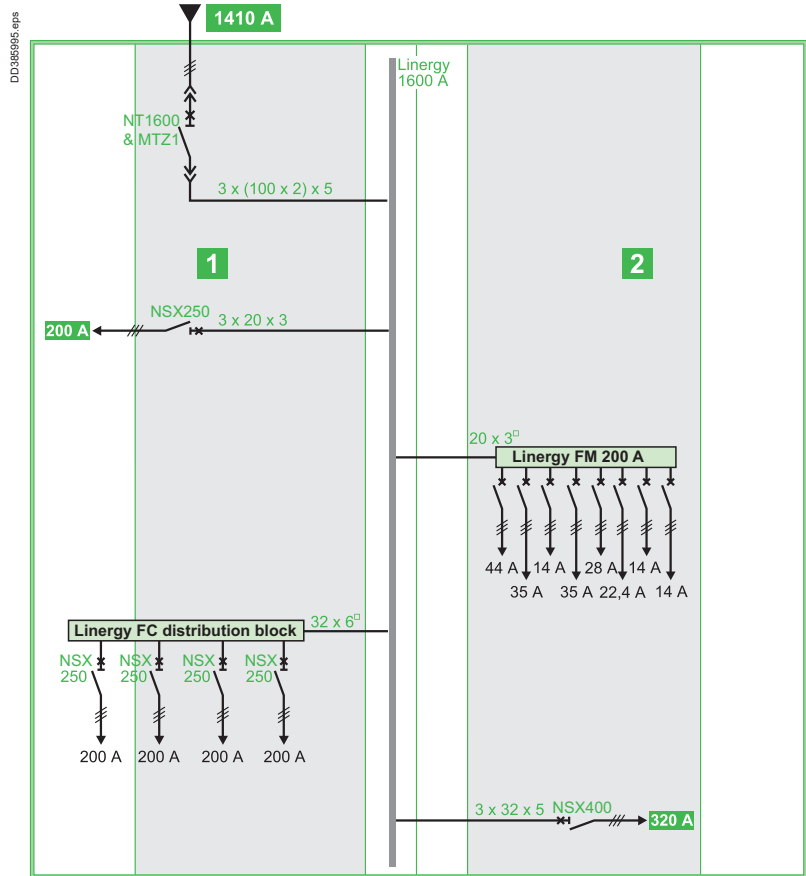
Two cubicles with busbar compartment, 800 mm wide, 1000 mm deep, two 300 mm wide ducts, IP30

Diversity factor: 0.7

Ambient temperature around the switchboard: 35 °C

Cubicle 1: P(W) of device zone = 580 W

Cubicle 2: P(W) of device zone = 180 W



Application of the diversity factor

In the configuration below, the standardised diversity factor (K div.) for a total of 14 outgoing circuits is 0.6, i.e. 60 % of In for each outgoing circuit. Schneider Electric prefers a more conservative approach and therefore divides the installation into four main circuits:

- Compact NSX250
- 200 A Linery FM: 8 outgoers → K div. = 0.7
- Linery FC: 4 outgoers → K div. = 0.8
- Compact NSX400.

1 Compact NSX250 + 1 Linery FM 200 A + 1 Linery FC + 1 Compact NSX400 → 4 outgoers, i.e. a diversity factor of 0.8.

As a result, the current flowing in each circuit is at least 70 % and up to 80 % of In.

Calculation of the power dissipated by devices in the incoming cubicle

Dissipated power of the NT1600 & MTZ1 indicated by the manufacturer: 460 W. The power dissipated by the connections is approximately 30 % of the device P(W):
 $0.3 \times 460 = 138 \text{ W}$.

Power of circuit breaker + connections = 460 + 138 = 598 W at 1600 A.

For I² (the Watts are proportional to the square of the current) at 1410 A (In of the incoming device):

Dissipated power of the Compact NSX250 indicated by the manufacturer: 42 W.

Dissipated power of the connections: $0.3 \times 42 = 12.6 \text{ W}$.

Power of circuit breaker + connections = 42 + 12.6 = 54.6 W at 250 A.

For 200 A (the tested value):

$$\frac{54.6}{250^2} \times 200^2 = 35 \text{ W}$$

Dissipated power of the Linery FC and its four Compact NSX250 circuit breakers:

$$4 \times 35 \text{ W (same calculation as above)} = 140 \text{ W}$$

Sum of the dissipated power in the incoming cubicle:

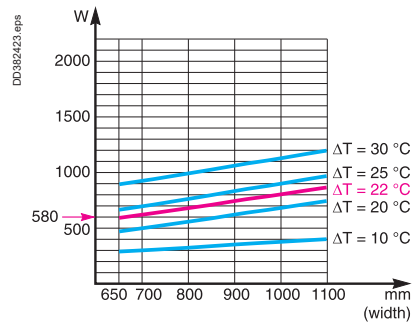
$$P(W) = 405 + 35 + 140 = \mathbf{580 \text{ W}}$$

Thermal management of switchboards

Example

Thermal characteristics of switchboards

Once the dissipated power of the devices has been determined and the enclosure with its IP selected, transfer the results (sum of the dissipated power and width of the device zone) to the chart corresponding to the enclosure IP.



Draw a line parallel to the others on the chart and read the corresponding difference in temperature.

For the given example, the heat rise is 22 °C at mid-height in the enclosure.

The internal temperature = external temperature + heat rise

$$= 35\text{ °C} + 22\text{ °C} = 57\text{ °C}$$

57 °C < 60 °C stipulated by the standard, i.e. the result is acceptable for an IP3 cubicle.

This gives roughly: Internal temperature = 60 °C at mid-height in the enclosure for a low IP value.

Internal temperature = 70 °C at mid-height in the enclosure for a high IP value.

Thermal management of switchboards

Charts

Thermal characteristics of switchboards

Test conditions: the cubicle is on the floor against a wall, the indicated internal heat rise is that measured at mid-height in the enclosure.

For the enclosures not mentioned on the previous pages, use the equation:

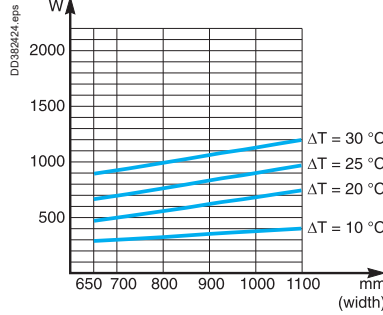
$$\Delta T = \frac{P}{S \times K}$$

- ΔT:** internal temperature - external temperature
- P:** power dissipated by the devices, connections and busbars (in Watts)
- S:** total free surface area of the enclosure (expressed in m²)
- K:** thermal-conduction coefficient of the material (W/m² °C)

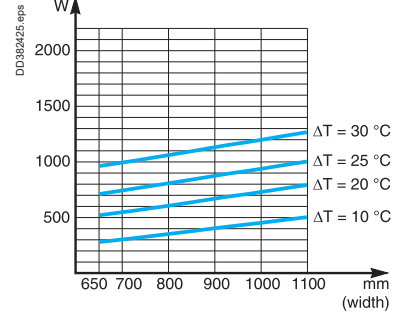
K = 5.5 W/m² °C for painted sheet metal.

Note: the dissipated power of each device is provided by the manufacturer. Add approximately 30 % to account for the connections and the busbars.

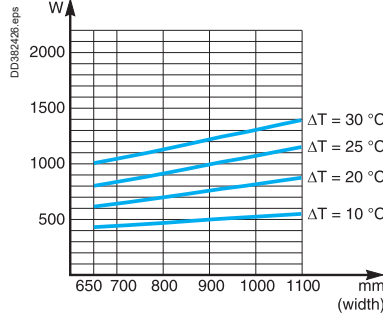
IP3X cubicle, 400 mm deep



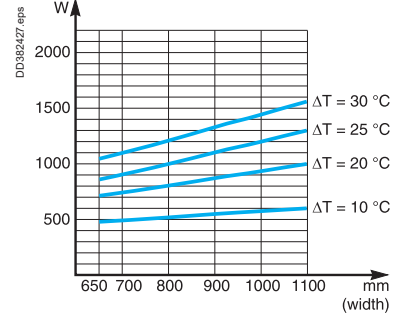
IP3X cubicle, 600 mm deep



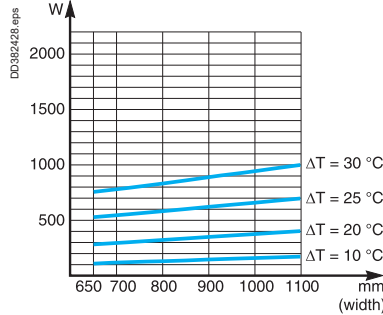
IP3X cubicle, 800 mm deep



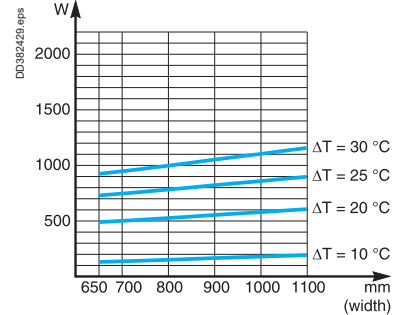
IP3X cubicle, 1000 mm deep



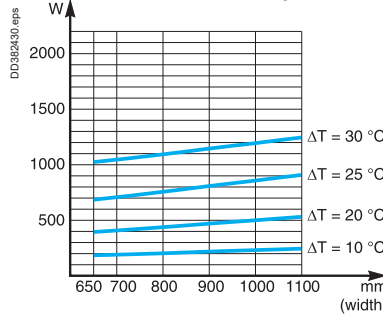
IP55 cubicle, 400 mm deep



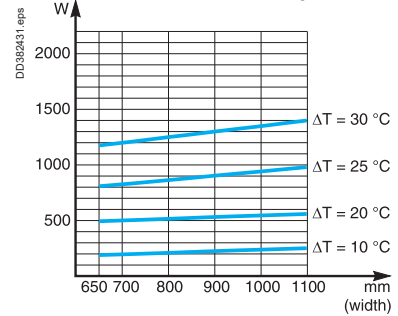
IP55 cubicle, 600 mm deep



IP55 cubicle, 800 mm deep



IP55 cubicle, 1000 mm deep



Thermal management of switchboards

Ventilation

Thermal characteristics of switchboards

The air enters the lower section via the fans and exits the upper section:

- through a ventilated roof
- or through a ventilation opening.

The air throughput of the fans is determined by the equation:

$$D = 3.1 \times \left(\frac{P}{\Delta T} - KS \right)$$

The chart below can be used to determine the necessary throughput, based on the dissipated power, the difference in temperature (internal - external) and the exposed surface area of the enclosure.

Example

Consider an IP3X cubicle, 650 mm wide and 400 mm deep, containing components (devices, connections, busbars, etc.) dissipating 1000 W.

The ambient temperature around the cubicle is 50 °C.

Given that the average temperature at mid-height should not exceed 60 °C, the difference in temperature ΔT is equal to 60 - 50 = 10 °C.

The exposed surface of the cubicle (non adjacent to a wall or other cubicle) is 4.46 m².

(back = 1.3 m², front = 1.3 m², roof = 0.26 m², side panels = 1.6 m²).

What is the necessary throughput of the ventilation system?

The throughput can be calculated as:

$$D = 3.1 \times \left(\frac{1000}{10} - 5.5 \times 4.46 \right)$$

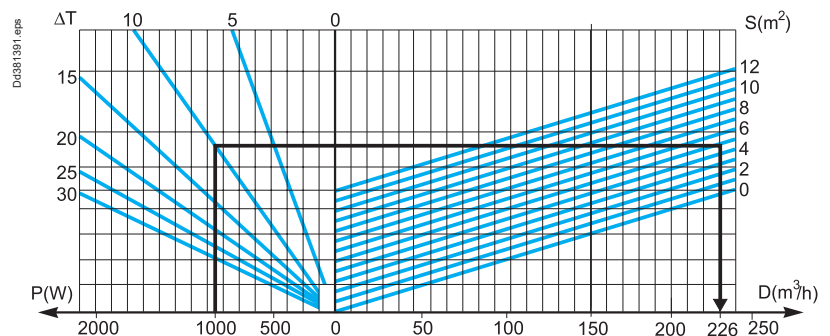
$D = 234 \text{ m}^3/\text{h}$.

In the range of PrismaSeT P accessories, select a system with a throughput of 300 m³/h.

Ref: **LVS08710**

In the duct 150mm & 300mm = no need cross members

In the duct 400mm without devices = no need cross members

**Calculation data**

P: power dissipated by the devices, connections and busbars (in Watts)

Pr: power of the heating resistor (in Watts)

Tm: maximum internal temperature in the device zone (in °C)

Ti: average internal temperature (in °C)

Te: average external temperature (in °C)

$\Delta T_m = T_m - T_e$

$\Delta T = T_i - T_e$

S: total free surface area of the enclosure (expressed in m²)

K: thermal-conduction coefficient of the material (W/m² °C)

$K = 5.5 \text{ W/m}^2 \text{ °C}$ for painted sheet metal

D: ventilation throughput (in m³/h)

Note: The dissipated power of each device is provided by the manufacturer. Add approximately 30 % to account for the connections and the busbars.

Thermal management of switchboards

Heating

Thermal characteristics of switchboards

The heating resistor, placed in the bottom of the switchboard, maintains the internal temperature 10 °C higher than the external temperature. When the switchboard is not in operation, the heater compensates the dissipated power normally emitted by the switchboard.

The power of the heating resistor is calculated:

- using the equation: $P_r = (\Delta T \times S \times K) - P$
- or using the charts below, based on the exposed surface area of the enclosure and the desired difference in temperature.

Chart to determine the heating resistor for small wall-mounted enclosures (exposed surfaces ≤ 1 m²)

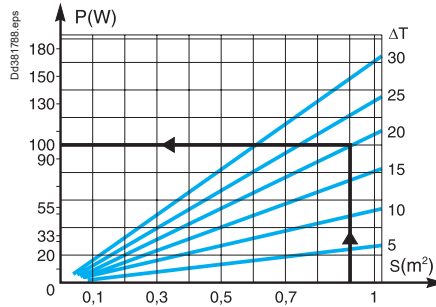
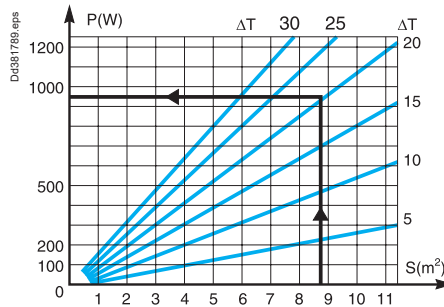


Chart to determine the heating resistor for all types of enclosures and cubicles



Calculation data

- P:** power dissipated by the devices, connections and busbars (in Watts)
- P_r:** power of the heating resistor (in Watts)
- T_m:** maximum internal temperature in the device zone (in °C)
- T_i:** average internal temperature (in °C)
- T_e:** average external temperature (in °C)
- $\Delta T_m = T_m - T_e$
- $\Delta T = T_i - T_e$
- S:** total free surface area of the enclosure (expressed in m²)
- K:** thermal-conduction coefficient of the material (W/m² °C)
- $K = 5.5 \text{ W/m}^2 \text{ °C}$ for painted sheet metal
- D:** ventilation throughput (in m³/h).

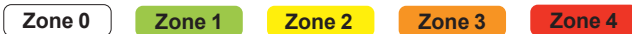
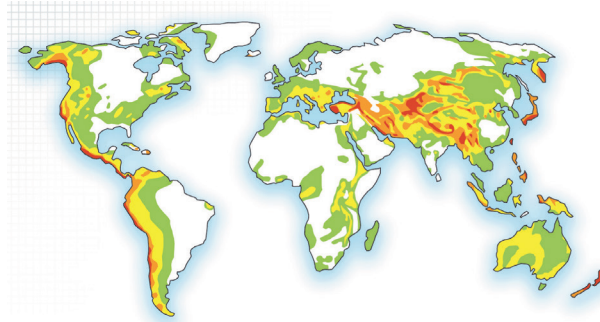
Note: The dissipated power of each device is provided by the manufacturer. Add approximately 30 % to account for the connections and the busbars.

PrismaSeT P Seismic
Specific application

Specific application

Seismic zone

Around the world can be found different zones with a specific seismic risk. These zones have been classified according to the Uniform Building Code (UBC).



Switchboard qualification

Tests are carried out on switchboards to ensure that they operate correctly (structural and functional integrity) under severe earthquake conditions and meet specific safety requirements. The tests carried out to qualify these switchboards are described in the international standard IEC 60068-3-3.

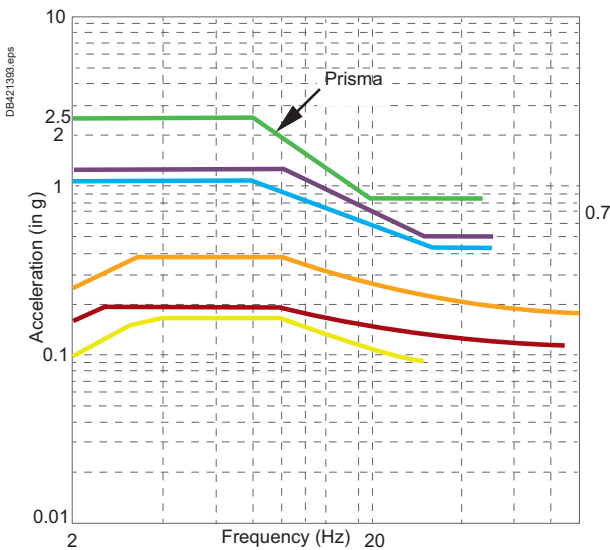
Classification

From weak to strong earthquakes, PrismaSeT P has been tested in the following ground accelerations to guarantee the right performance on seismic risk.

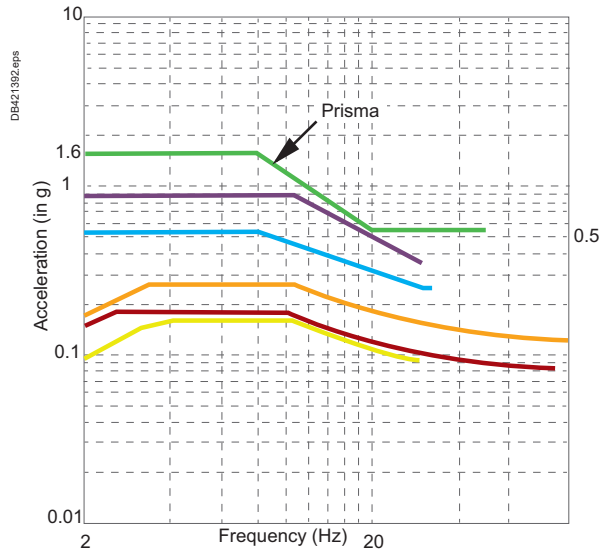
| IEC 60068 -3-3 Ground acceleration | Seismic characteristics | | | |
|---------------------------------------|--------------------------------------|-------------------------|---------------|----------|
| References | General description | Richter scale magnitude | MSK Intensity | UBC Zone |
| AG2 | Intensity from weak to average | < 5.5 | < VIII | 0 1 |
| AG3 | Intensity from average to strong | 5.5 to 7.0 | VIII to IX | 2 3 |
| AG5 | Intensity from strong to very strong | > 7.0 | > IX | 4 |

PrismaSeT P is compliant up to level AG5 from IEC 60068-3-3 (2.5 g) :

Compare Prisma switchboard performances with seismic standards
Damping 5% - horizontal



Compare Prisma switchboards performances with seismic standards
Damping 5% - vertical



| Country | Standard | Parameters |
|-------------|---------------------------|--|
| PrismaSeT P | IEC60068-3-3 | Up to level AG5 |
| Russia | GOST 17516.1-90 | Civil Market (Seismic intensity 8, all installation levels) or (Up to Seismic Intensity 9, Level 1 only) |
| Chile | ENDESA 1986 | All seismic categories |
| Turkey | Seismic Turkish Code 2009 | All seismic zones, all site class |
| Greece | EAK 2000 | All soil types, Worst case |
| Australia | AS1170 | All soil types, Worst case |
| UBC | 1997-AC156 | Zone 4 - Ground Level |

PrismaSeT P Seismic

Seismic kit

Specific application

Reinforcement

PrismaSeT P seismic cubicles are 2.5 g compliant.

Special parts have been created, specific reinforced side panels and bottom reinforcement brackets.

Reinforced side panels

Ref: LVS08765

To respect seismic withstand, use side panels in IP55 version (even with an IP30 switchboard).



Seismic reinforcement brackets

Ref: LVS08710

Foot part to be added in each bottom angle to reinforce the structure.



Seismic Kit with cross-members

With ducts 150 mm & 300 mm = cross-members not needed

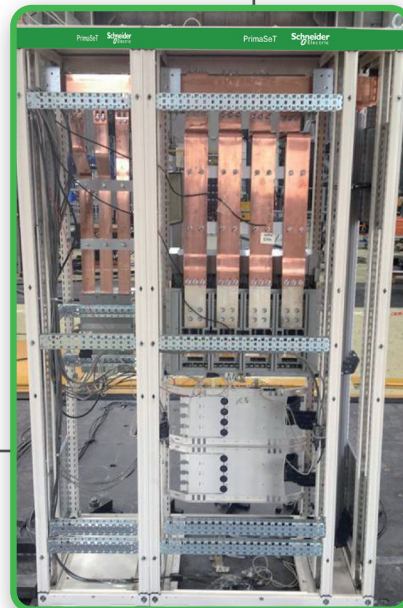
With duct 400 mm without devices = cross-members not needed

For the cubicles

Ref: LVS03587 x2 or LVS08774 x1

- > 1 cross-member at the top, on the rear upright
- > 1 cross-member in the middle, on the rear upright
- > 2 cross-members at the bottom, on the rear uprights.

Nota : Cross-members must be added in a rear compartment in case of depth 1000 mm.



PrismaSeT P Seismic

Installation conditions

Specific application

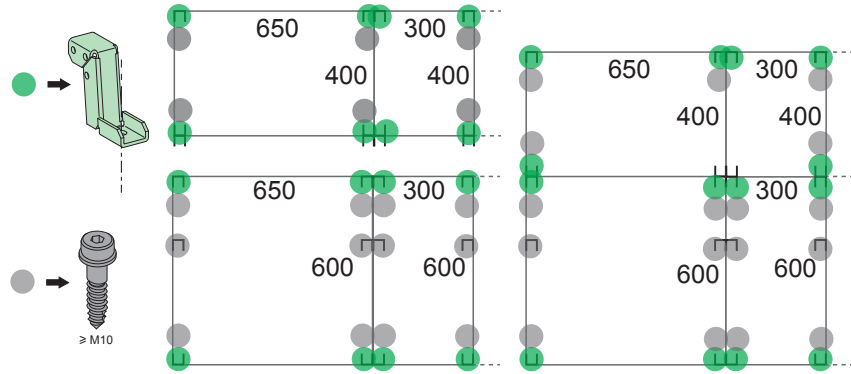
PrismaSeT P cubicle frames

PrismaSeT P cubicle frames have to be assembled according to the mounting instructions (04696505) and must respect the tightening torque and association screws position. Functional units have to be assembled according to the mounting instructions supplied with each reference.

Fixing points to ground

Structure fixing points

Customer ground points



Tightening torque = 50 Nm with customer M10 screws

Nota: cubicle of the same switchboard must have the same depth
Refer to QGH13690 leaflet for compliant assembly

Sizes to respect

Dimensional specifications have to be taken into account for the switchboard sizes and busbar ratings.

Switchboard sizes:

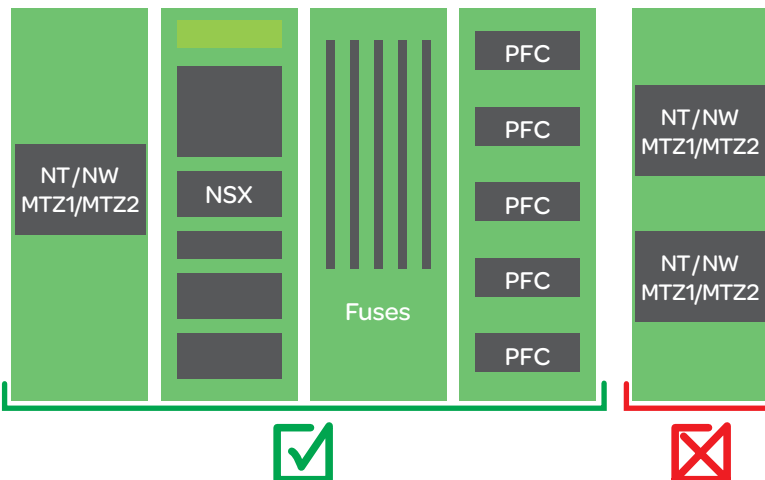
- > Minimum switchboard width (1) = 1200 mm
- > Minimum cubicle depth = 400 mm
- > Height = 2000 mm

Nota: Seismic switchboards must not be installed with any plinth.
(1) Switchboard must be equipped with horizontal busbars

Maximum busbar ratings:

| | 3P | 4P |
|-------------------------|------------|------------|
| Horizontal Linergy BS | 2b 80 x 10 | 2b 80 x 10 |
| Horizontal Linergy LGYE | LGYE 4000 | LGYE 4000 |

Devices installation limit



Nota: Seismic cubicles must not exceed the unit weight of 350 kg, devices and busbars included.

Yes

- > Cable entry : top/bottom
- > Transparent door
- > IP 30/31
- > IP55

No

- > Connection to busways
- > Plinth 100 mm or 2 x 100 mm

NOTICE

HAZARD OF STRUCTURAL FAILURE

Seismic cubicles must have the same depth. Plinths are not allowed in seismic configurations

Failure to follow these instructions can result in equipment damage

Selection guide

Select a cubicle configuration

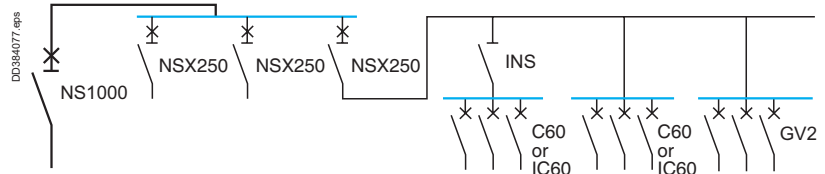
D-2

D

PrismaSeT P - Selection guide

Select a cubicle configuration

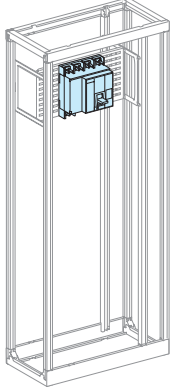
Starting with the electrical diagram:
IP30 switchboard



E PrismaSeT P Functional units

Install the incomer

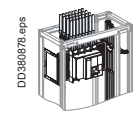
See page E-2



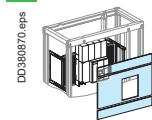
DD380822 eps

- Order
- connection components
 - mounting plates and front plates
 - busbar connections.

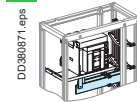
1 Front conn. using cables



2 Device installation



3 Linergy LGY BB conn.



| Device | Fixed device |
|------------------------------|---------------------------|
| Arc chute screen | NS630b/1000 NS1250/1600 |
| 3P | 33596 |
| 4P | 33597 |
| Vertical connection adapters | 3P 33642 |
| 4P | 33643 |
| Front connection cover | LVS04851 |

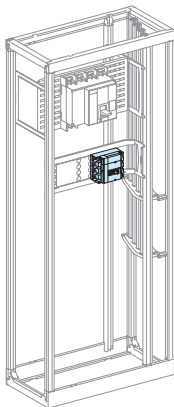
| Mounting Device | Front connection with cables |
|---------------------------|--|
| | Fixed device |
| | NS630b/1000 NS1250/1600 |
| Number of devices per row | 1 1 |
| No. of vertical modules | 12 14 |
| Mounting plates | LVS03482 LVS03482 |
| Front plates | upstream LVS03802 [2] LVS03804 [4] |
| [No. of vertical modules] | with cut-out LVS03690 or LVS03701 [7] LVS03803 [3] |
| | downstream LVS03803 [3] LVS03803 [3] |

| Device | Fixed device |
|------------------------------|---|
| Connection type | NS630b/1250 NS1600 |
| Busbars connection | Front connection delivered with the device |
| | For Linergy LGY busbars: prefabricated connection |
| 3P | LVS04485 LVS04487 |
| 4P | LVS04486 LVS04488 |
| Cover for busbars connection | LVS04926 |
| Linergy LGY, LGYE, BS | |

E PrismaSeT P Functional units

Install the Compact devices

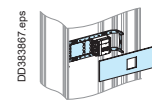
See page E-20



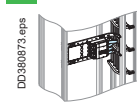
DD380823 eps

- Order
- mounting plates and front plates
 - busbar connections
 - connection accessories.

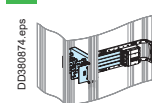
1 Installation



2 Linergy LGY BB conn.



3 Connection

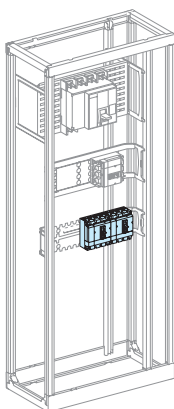


| Device | Toggle |
|---------------------------|--|
| | NSX100/250, Vigi NSX100/250 |
| 3P | 4P |
| Number of device per row | 1 1 |
| No. of vertical modules | 3 4 |
| Mounting plates | LVS03411 LVS03412 |
| Front plates | with cut-out LVS03604 [3] LVS03606 [4] |
| [No. of vertical modules] | |

| Device | Linergy LGY Toggle |
|--------------------------|-----------------------------|
| | NSX100/250, Vigi NSX100/250 |
| 3P | 4P |
| Prefabricated connection | LVS04423 LVS04424 |

| Device | Toggle |
|---------------------------|--|
| | NSX100/160 Vigi NSX100/160 NSX250 Vigi NSX250 |
| Number of device per row | 3/4 3/4 3/4 3/4 |
| No. of vertical modules | 6 8 7 9 |
| Mounting plates | LVS03420 LVS03420 LVS03420 LVS03420 |
| Front plates | with cut-out LVS03243 [5] LVS03241 [7] LVS03243 [5] LVS03241 [7] |
| [No. of vertical modules] | downstream LVS03801 [1] LVS03801 [1] LVS03802 [2] LVS03802 [2] |

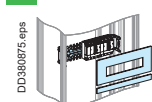
E PrismaSeT P Functional units



DD380824 eps

- Order
- mounting plates and front plates
 - distribution block
 - connection accessories.

1 Installation



2 Linergy LGY BB conn.



3 Connection



| Device | Toggle |
|---------------------------|--|
| | NSX100/160 Vigi NSX100/160 NSX250 Vigi NSX250 |
| Number of device per row | 3/4 3/4 3/4 3/4 |
| No. of vertical modules | 6 8 7 9 |
| Mounting plates | LVS03420 LVS03420 LVS03420 LVS03420 |
| Front plates | with cut-out LVS03243 [5] LVS03241 [7] LVS03243 [5] LVS03241 [7] |
| [No. of vertical modules] | downstream LVS03801 [1] LVS03801 [1] LVS03802 [2] LVS03802 [2] |

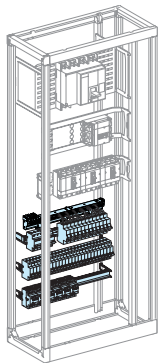
| Device | Linergy LGY Toggle |
|--|---|
| | NSX100/160, Vigi NSX100/160 NSX250, Vigi NSX250 |
| 3P | 4P |
| Number of devices | 4 3 4 3 |
| Linergy FC distribution blocks (with connection) | LVS04403 LVS04404 LVS04403 LVS04404 |

| Device | Toggle |
|--|---|
| | NSX100/160, Vigi NSX100/160 NSX250, Vigi NSX250 |
| 3P | 4P |
| Front connection long terminal shields | LV429517 LV429518 LV429517 LV429518 |
| Rear connection short terminal shields | LV429515 LV429516 LV429515 LV429516 |

PrismaSeT P - Selection guide

Select a cubicle configuration

Install the modular devices



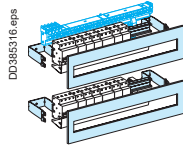
DD385315.eps

Order the mounting plates and front plates taking into account:

- supply to the rows
- cable running.

1 Acti 9

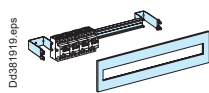
See page E-63



DD385316.eps

2 GV2 circuit breaker

See page E-62



DD381918.eps

| Device | All modular devices | Modular devices ≤ 40 A |
|-------------------------------|---------------------|------------------------|
| Rail length (modules of 9 mm) | 48 | 48 |
| No. of vertical modules | 4 | 3 |
| Rail (48 modules of 9 mm) | LVS03401 | LVS03401 |
| Modular front plates | LVS03204 [4] | LVS03203 [3] |
| Blanking plate strip | LVS03220 | LVS03220 |
| divisible | LVS03221 | LVS03221 |

| Device | Circuit breaker | GV3 |
|----------------------------|-----------------------|--------------|
| No. of vertical modules | GV2RT - GV2ME - GV2LE | 5 |
| Useful length of rail (mm) | 432 | |
| Modular rail (adjustable) | LVS03401 | LVS03402 |
| Front plates with cut-out | LVS03203 [3] | LVS03205 [5] |
| [No. of vert mod] | | |

Linery FH comb busbar see page G-28 to G-33
Cable running see page F-27

Determine the size of the switchboard

- count the number of modules occupied
- determine the number of cubicles
- order the additional plain front plate.

32 modules

1 cubicle

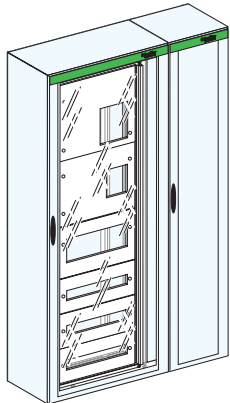
Plain front plate
See page F-23

The capacity of a cubicle is 36 modules.

| Device | Plain front plate W = 500 mm | | | | | |
|-------------------|------------------------------|------------|------------|------------|------------|------------|
| | H = 50 mm | H = 100 mm | H = 150 mm | H = 200 mm | H = 250 mm | H = 300 mm |
| [No. of vert mod] | [1] | [2] | [3] | [4] | [5] | [6] |
| Cat. no | LVS03801 | LVS03802 | LVS03803 | LVS03804 | LVS03805 | LVS03806 |

Select the enclosures

See page F-1



DD380827.eps

1 Frameworks

2 Hinged front plate support frame

3 Doors

4 Rear panels

5 Side panels

6 Roofs

7 Plinth, gland plates, finishing parts, etc.

| Device | 300 | 400 | 650 | 800 | 800 (650 + 150) |
|------------|----------|----------|----------|----------|-----------------|
| Base frame | | | | | |
| Cat. no | LVS08403 | LVS08404 | LVS08406 | LVS08408 | LVS08407 |

| Device | 400 | 650 |
|----------------------------------|----------|----------|
| Hinged front plate support frame | | |
| Cat. no | LVS08564 | LVS08566 |

| Device | W = 300 | W = 400 | W = 650 | W = 800 |
|------------------|----------|----------|----------|----------|
| Plain door | LVS08513 | LVS08514 | LVS08516 | LVS08518 |
| Transparent door | - | LVS08534 | LVS08536 | LVS08538 |

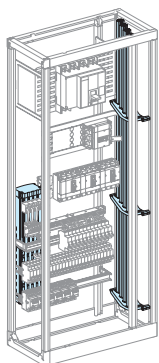
| Dimensions | W = 300 mm | W = 400 mm | W = 650 mm | W = 800 mm |
|-------------|------------|------------|------------|------------|
| Rear panels | LVS08733 | LVS08734 | LVS08736 | LVS08738 |

| Dimensions | D = 400 mm | | D = 600 mm | |
|-------------|------------|--|------------|--|
| Side panels | LVS08750 | | LVS08760 | |

| Dimensions | W = 300 mm | W = 400 mm | W = 650 mm | W = 800 mm |
|------------|------------|------------|------------|------------|
| Plain roof | LVS08433 | LVS08434 | LVS08436 | LVS08438 |
| D = 400 mm | | | | |
| Plain roof | LVS08633 | LVS08634 | LVS08636 | LVS08638 |
| D = 600 mm | | | | |

Plan the distribution system

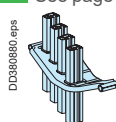
See page G-1



DD385317.eps

Linergy LGY busbars

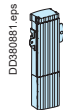
1 See page G-4



DD380890.eps

Linergy BW busbars

2



DD380881.eps

| Intensity (A) | Linergy LGY profiles for table | Number of busbars supports | | | | | | | |
|---------------|--------------------------------|----------------------------|---------|-----------------------------|----|----|----|----|----|
| | | IP ≤ 31 | IP > 31 | I _{cw} (kA rms/1s) | | | | | |
| 630 | LVS04502 | 25 | 30 | 40 | 50 | 60 | 65 | 75 | 85 |
| | LVS04503 | | | | | | | | |
| 800 | LVS04503 | 3 | | | | | | | |
| | LVS04504 | | | | | | | | |
| 1000 | LVS04504 | | | | | | | | |

| Designation C | at. No. |
|----------------|----------|
| Busbar support | LVS04851 |

| Linergy BW busbars | 160 A | 250 A | 400 A | 630 A |
|--------------------|----------------------|----------|----------|----------|
| 3P | W = 1000 mm LVS04111 | LVS04112 | LVS04113 | LVS04114 |
| | W = 1400 mm LVS04116 | LVS04117 | LVS04118 | LVS04119 |
| 4P | W = 1000 mm LVS04121 | LVS04122 | LVS04123 | LVS04124 |
| | W = 1400 mm LVS04126 | LVS04127 | LVS04128 | LVS04129 |

PrismaSeT P

Functional units

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Masterpact MTZ1

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MasterPact MTZ2 08 to 32

Cables connection

Fixed, withdrawable

Circuit breakers

| Mounting | | Front connection | | | |
|---|--------------|------------------|--------------|---------------------|---------------|
| | | | | | |
| Devices | | Fixed device | | Withdrawable device | |
| | | MTZ2 08/16 | MTZ2 20/32 | MTZ2 08/16 | MTZ2 20/32 |
| Number of devices per row | | 1 | 1 | 1 | 1 |
| No. of vertical modules (1) | | 18 | 19 | 19 | 20 |
| Mounting plates | | LVS03500 | LVS03500 | LVS03500 | LVS03500 |
| Front plates [No. of vertical modules] | upstream | LVS03804 [4] | LVS03805 [5] | LVS03804 [4] | LVS03805 [5] |
| | with cut-out | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| | downstream | LVS03805 [5] | LVS03805 [5] | LVS03805 [5] | LVS03805 [5] |

| Mounting | | Rear connection | | | |
|---|--------------|-----------------|--------------|---------------------|---------------|
| | | | | | |
| Devices | | Fixed device | | Withdrawable device | |
| | | MTZ2 08/16 | MTZ2 20/32 | MTZ2 08/16 | MTZ2 20/32 |
| Number of devices per row | | 1 | 1 | 1 | 1 |
| No. of vertical modules | | 14 | 14 | 15 | 15 |
| Mounting plates | | LVS03500 | LVS03500 | LVS03500 | LVS03500 |
| Front plates [No. of vertical modules] | with cut-out | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| | downstream | LVS03805 [5] | LVS03805 [5] | LVS03805 [5] | LVS03805 [5] |

| Connection | | Upstream on incomer | |
|-------------------|--|-------------------------|---------------------|
| | | | |
| Devices | | Fixed device | Withdrawable device |
| | | MTZ2 08/32 | MTZ2 08/32 |
| Type of terminals | Vertical rear connections supplied with the device | | |
| Connection | must be made (2) | | |
| Front connection | bar supports | 2 x LVS04694 + LVS04678 | |
| | cables cover | LVS04861 | |
| Rear connection | bar supports | 2 x LVS04694 | |
| | cables cover | LVS04863 | |

(1) For downstream connection with copper.

For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200A. Select downstream plain front plate (LVS03806).


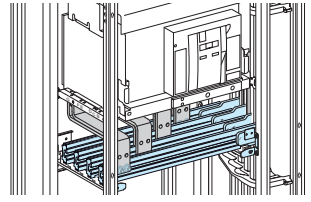
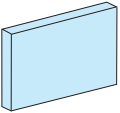

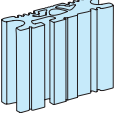
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

MasterPact MTZ2 08 to 32

Cables connection

Fixed, withdrawable

Circuit breakers

| Distribution | | Downstream on Linergy LGY, LGYE or BS busbars | | | | | |
|---|--------------|--|-----------------|---|---------------------|---|---------------------|
|  | |  | | | | | |
| Devices | | Fixed and withdrawable MTZ2 08/16 | | Fixed and withdrawable MTZ2 20/25 | | Fixed and withdrawable MTZ2 32 | |
| | | 3P | 4P | 3P | 4P | 3P | 4P |
| Type of terminals | | Front connections supplied with the device. | | | | | |
| For vertical busbar Linergy BS  | Connection | Must be made according to the busbar drawings supplied by Schneider Electric. | | | | | |
| | Joint | - | - | Order one joint per phase: 1 joint for busbars, W = 50/60 mm (LVS04640), 1 joint for busbars, W = 80/100 mm (LVS04641). | | | |
| | Free support | 2 x LVS04662 For I _{cw} ≥ 75 kA rms, add an additional free support LVS04662 . | | | | | |
| | Cover | LVS04926 + LVS04927 | | | | | |
| For vertical busbar Linergy LGY  | Connection | LVS04493 | LVS04494 | must be made according to the busbar drawings supplied by Schneider Electric. | | | |
| | Joint | LVS04683 | LVS04684 | - | | | |
| | Free support | - | - | 2 x LVS04662 For I _{cw} ≥ 75 kA rms, add an additional free support LVS04662 . | | | |
| | Cover | LVS04925 + LVS04928 | | LVS04926 + LVS04927 | | | |
| For vertical busbar Linergy LGYE (1)  | Connection | - | - | LVS04495 | LVS04496 | LVS04497 (2) | LVS04498 (2) |
| | Joint | - | - | 3 x LVS04685 | 4 x LVS04685 | 3 x LVS04687 | 4 x LVS04687 |
| | Cover | LVS04925 + LVS04928 | | | | | |

- (1) For LGYE 08/25, use a duct W = 150 mm. For LGYE 32/40, use a duct W = 300 mm.
- (2) One additional module is required, select **LVS03806** plain front plate for downstream.

Note: to make measurements:

Install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (**LVS03801**) or install a Micrologic control unit capable of displaying the values.
 Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

MasterPact MTZ2 08 to 32

Canalis connection

Fixed, withdrawable

Circuit breakers

| Mounting | | Front connection | | | |
|---|--------------|----------------------------------|-----------------------------------|---------------------|----------------------------------|
| | | | | | |
| Devices | | Fixed device | | Withdrawable device | |
| | | MTZ2 08/16 | MTZ2 20/32 | MTZ2 08/16 | MTZ2 20/32 |
| Number of devices per row | | 1 | 1 | 1 | 1 |
| No. of vertical modules (1) | | 27 | 28 | 27 | 28 |
| Mounting plates | | LVS03500 | LVS03500 | LVS03500 | LVS03500 |
| Front plates [No. of vertical modules] | upstream | LVS03805 [5] 2 x LVS03804 [8] | 2 x LVS03805 [10] LVS03804 [4] | 3 x LVS03804 [12] | LVS03805 [5] 2 x LVS03804 [8] |
| | with cut-out | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| | downstream | LVS03805 [5] | LVS03805 [5] | LVS03805 [5] | LVS03805 [5] |

| Mounting | | Rear connection | | | |
|---|--------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | | | | | |
| Devices | | Fixed device | | Withdrawable device | |
| | | MTZ2 08/16 | MTZ2 20/32 | MTZ2 08/16 | MTZ2 20/32 |
| Number of devices per row | | 1 | 1 | 1 | 1 |
| No. of vertical modules | | 16 | 16 | 17 | 17 |
| Mounting plates | | LVS03500 | LVS03500 | LVS03500 | LVS03500 |
| Front plates [No. of vertical modules] | upstream | LVS03804 [4] + LVS03803 [3] | LVS03804 [4] + LVS03803 [3] | LVS03804 [4] + LVS03803 [3] | LVS03804 [4] + LVS03803 [3] |
| | with cut-out | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |

| Connection | | Upstream on incomer | | | | | | | | | | | |
|-----------------------|----------------|--|------------|----------|---------------------|------------|----------|------------|------------|----------|------------|------------|----------|
| | | | | | | | | | | | | | |
| Devices | | Fixed device | | | Withdrawable device | | | | | | | | |
| | | MTZ2 08/16 | MTZ2 20/25 | MTZ2 32 | MTZ2 08/16 | MTZ2 20/25 | MTZ2 32 | MTZ2 08/16 | MTZ2 20/25 | MTZ2 32 | MTZ2 08/16 | MTZ2 20/25 | MTZ2 32 |
| Type of terminals | | Vertical rear connections supplied with the device | | | | | | | | | | | |
| Canalis support | | LVS03561 | | | | | | | | | | | |
| Canalis interface (2) | | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| | | LVS04715 | LVS04716 | LVS04725 | LVS04726 | LVS04735 | LVS04736 | LVS04715 | LVS04716 | LVS04725 | LVS04726 | LVS04735 | LVS04736 |
| Front connection | Bar supports | 2 x LVS04694 + LVS04678 | | | | | | | | | | | |
| | Extension bars | must be made (3) | | | | | | | | | | | |
| | Canalis Cover | LVS04871 + LVS04861 | | | | | | | | | | | |
| Rear connection | Bar supports | 2 x LVS04694 | | | | | | | | | | | |
| | Extension bars | must be made (3) | | | | | | | | | | | |
| | Canalis Cover | LVS04871 + LVS04863 | | | | | | | | | | | |

(1) For downstream connection with copper.

(2) For downstream prefabricated connection with Linergy LGYE, 1 additional module is required only for MTZ2 3200A. Select downstream plain front plate (LVS03806).

(3) To tight the screws of the Canalis interface use the special tool 87808.


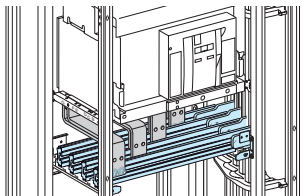
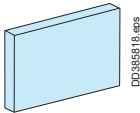

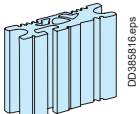
(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

MasterPact MTZ2 08 to 32

Canalis connection

Fixed, withdrawable

Circuit breakers

| Distribution | | Downstream on Linergy LGY, LGYE or BS busbars | | | | | |
|---|--------------|--|-----------------|---|---------------------|---------------------|---------------------|
|  | |  | | | | | |
| Fixed / withdrawable devices | | MTZ2 08/16 | | MTZ2 20/25 | | MTZ2 32 | |
| | | 3P | 4P | 3P | 4P | 3P | 4P |
| Type of terminals | | Front connections supplied with the device. | | | | | |
|  For vertical busbar Linergy BS | Connection | Must be made according to the busbar drawings supplied by Schneider Electric. | | | | | |
| | Joint | - | - | Order one joint per phase: 1 joint for busbars, W = 50/60 mm (LVS04640), 1 joint for busbars, W = 80/100 mm (LVS04641). | | | |
| | Free support | 2 x LVS04662 For I _{cw} ≥ 75 kA rms, add an additional free support LVS04662 . | | | | | |
| | Cover | LVS04926 + LVS04927 | | | | | |
|  For vertical busbar Linergy LGY | Connection | LVS04493 | LVS04494 | must be made according to the busbar drawings supplied by Schneider Electric. | | | |
| | Joint | LVS04683 | LVS04684 | - | | | |
| | Free support | - | - | 2 x LVS04662 For I _{cw} ≥ 75 kA rms, add an additional free support LVS04662 . | | | |
| | Cover | LVS04925 + LVS04928 | | LVS04926 + LVS04927 | | | |
|  For vertical busbar Linergy LGYE (1) | Connection | - | - | LVS04495 | LVS04496 | LVS04497 (2) | LVS04498 (2) |
| | Joint | - | - | 3 x LVS04685 | 4 x LVS04685 | 3 x LVS04687 | 4 x LVS04687 |
| | Cover | LVS04925 + LVS04928 | | | | | |
| | | | | | | | |

(1) For LGYE 08/25, use a duct W = 150 mm. For LGYE 32/40, use a duct W = 300 mm.

(2) One additional module is required, select **LVS03806** plain front plate for downstream.

Note: to make measurements:

Install the CTs preferably upstream, on the supply terminal extension bars or install the CTs on the horizontal busbars (busbar connection). In this case, add one module and a plain front plate (**LVS03801**) or install a Micrologic control unit capable of displaying the values.

Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

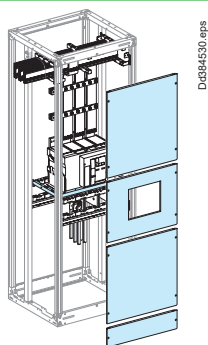
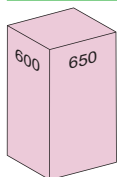
MasterPact MTZ2 08 to 40

Dedicated cubicle - W = 650 mm

Fixed, withdrawable

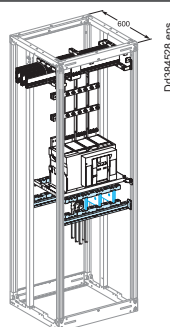
Circuit breakers



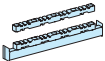
Mounting Dedicated cubicle



| Devices | Fixed device | | Withdrawable device | |
|---|--------------|------------------------------|---------------------|------------------------------|
| | MTZ2 08/32 | MTZ2 40 (2) | MTZ2 08/32 | MTZ2 40 (2) |
| Number of devices per row | 1 | (2) | 1 | (2) |
| No. of vertical modules | 36 | (2) | 36 | (2) |
| Mounting plates | LVS03500 | (2) | LVS03500 | (2) |
| Front plates [No. of vertical modules] | upstream (1) | LVS03808 [12] | LVS03808 [12] | (2) |
| | with cut-out | LVS03711 [9] | LVS03710 [10] | (2) |
| | downstream | LVS03808 [12] + LVS03803 [3] | (2) | LVS03808 [12] + LVS03802 [2] |

Connection Upstream with bottom cables



| Fixed / withdrawable devices | MTZ2 08/32 | MTZ2 40 (2) |
|--|--------------------------|-------------|
| Type of terminals  | Vertical rear connectors | (2) |
| Terminal extension bars for connection  | must be made (3) | (2) |
| Terminal extension bar supports  | LVS04694 x 2 | (2) |
| Cables cover | LVS04861 | (2) |

(1) One or two 3-module front plates for 72 x 72 and 96 x 96 mm measurement devices can be installed just above the cut-out front plate:

■ 2 3-module front plates + 1 plain front plate LVS03806 (6 modules)

(2) Contact Schneider Electric for 4000 A dedicated cubicle.

(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.


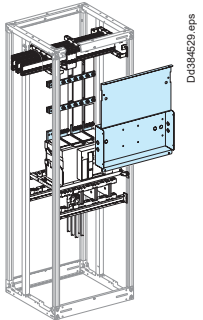
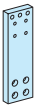
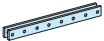

Human-switchboard interface > page E-66.

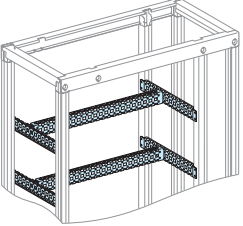
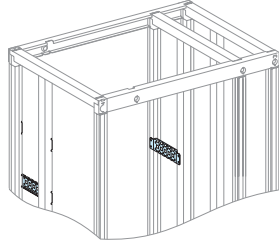
MasterPact MTZ2 08 to 40

Dedicated cubicle - W = 650 mm

Fixed, withdrawable

Circuit breakers

| Distribution | Downstream up links on horizontal busbars | | | | | | |
|--|---|-------------------|----------------|--------------------|-----------------------------|----------------|--------------------|
| | Linergy LGYE | | | | Linergy BS | | |
|  |  | | | | | | |
| Fixed / withdrawable devices | MTZ2 08/16 | MTZ2 20/25 | MTZ2 32 | MTZ2 40 (1) | MTZ2 08/25 | MTZ2 32 | MTZ2 40 (1) |
| Type of terminals  | Front connection | | | | Front connection | | |
| Spacing rods for flat bars  | LVS04690 x 2 | LVS04690 x 2 | LVS04690 x 2 | - | LVS04690 x 2 | LVS04690 x 2 | - |
| Connection | Connection must be made (2) | | | | Connection must be made (2) | | |
| horizontal 3200 A mouting hardware | - | - | - | - | LVS04637 (3) | LVS04637 (3) | - |
| Busbar cover (4)  | LVS04860 | LVS04860 | LVS04860 | - | LVS04860 | LVS04860 | - |

| Accessories | |
|-----------------|--|
| |   |
| | Cross-members |
| Catalog number | LVS03584 LVS03586 |
| Characteristics | Set of 2 For 650 mm wide and 400 mm deep cubicle |
| | Set of 2 W = 200 mm, can be added to the 400 mm cross-members for frameworks that are 600 mm deep. They can also be installed separately |

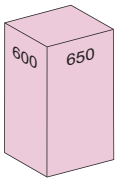
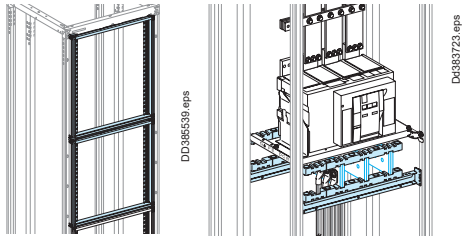
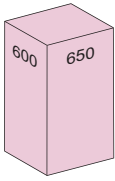
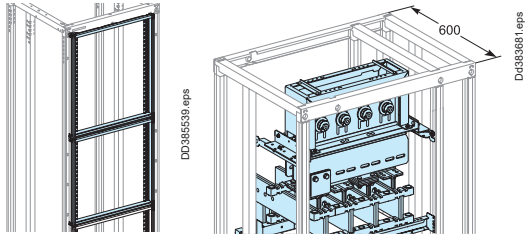
(1) Contact Schneider Electric for 4000 A dedicated cubicle.
 (2) Connection to be made according to the busbar drawings supplied by Schneider Electric.
 (3) Catalog number LVS04637 includes 1 connection only. Order 1 connection per phase.
 (4) The cover is compulsory behind front plates designed for measurement devices.

MasterPact MTZ2 08 to 32

Partial front plate support frames

Withdrawable

Circuit breakers

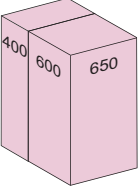
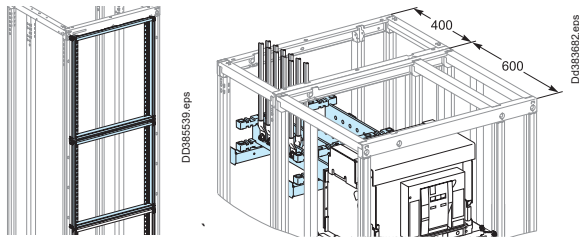
| Mounting | | Front connection with cables in dedicated cubicle | |
|--|--------------|--|---|
|  | |  | |
| Devices | | Withdrawable device | |
| | | MTZ2 08/32 | |
| No. of vertical modules | | 36 (3) | |
| Mounting plates | | LVS03500 | |
| Front plates [No. of vertical modules] | upstream | 2 x LVS03806 [12] | |
| | with cut-out | LVS03709 [10] | |
| | downstream | 2 x LVS03806 [12] | |
| 1/3 front plate support frame | | LVS08560 (1) + 2 x LVS08562 (2) | |
| Cover | | LVS04861 | |
| Mounting | | Canalis front connection | |
|  | |  | |
| Devices | | Withdrawable device | |
| | | MTZ2 08/16 | MTZ2 20/32 |
| No. of vertical modules | | 27 (3) | 28 (3) |
| Mounting plates | | LVS03500 | LVS03500 |
| Front plates [No. of vertical modules] | upstream | 3 x LVS03804 [12] | 2 x LVS03805 [10] + LVS03802 [2] |
| | with cut-out | LVS03709 [10] | LVS03710 [10] |
| | downstream | LVS03804 [4] | LVS03804 [4] |
| 1/3 front plate support frame | | LVS08560 (1) + 2 x LVS08562 (2) | LVS08560 (1) + 2 x LVS08562 (2) |
| Cover | | LVS04861 | LVS04861 |

MasterPact MTZ2 08 to 32

Partial front plate support frames

Withdrawable

Circuit breakers

| Mounting | | Rear connection with cables | |
|---|--|--|--|
|  | |  | |
| Devices | Withdrawable device | | |
| | MTZ2 08/32 | | |
| No. of vertical modules | 15 (3) | | |
| Mounting plates | LVS03500 | | |
| Front plates | upstream | - | |
| [No. of vertical modules] | with cut-out | LVS03709 [10] | |
| | downstream | LVS03804 [4] | |
| 1/3 front plate support frame | LVS08560 (1) + 2 x LVS08562 (2) | | |

- (1) 1/3 front plate support frame 10 modules.
- (2) 1/3 front plate support frame 12 modules.
- (3) Modularity includes the space of one module between each front plate support frame.



MasterPact MTZ1 06 to 16

Cables connection

Toggle, motor mechanism - Fixed, withdrawable

Circuit breakers

| Mounting | | Front connection with cables | | | |
|---|--------------|------------------------------|--------------|---------------------|--------------|
| | | | | | |
| Devices | | Fixed device | | Withdrawable device | |
| | | MTZ1 06/10 | MTZ1 12/16 | MTZ1 06/10 | MTZ1 12/16 |
| Number of devices per row | | 1 | 1 | 1 | 1 |
| No. of vertical modules | | 12 | 14 | 13 | 15 |
| Mounting plates | | LVS03484 | LVS03484 | LVS03483 | LVS03483 |
| Front plates [No. of vertical modules] | upstream | LVS03802 [2] | LVS03804 [4] | LVS03802 [2] | LVS03804 [4] |
| | with cut-out | LVS03692 [7] | LVS03692 [7] | LVS03691 [8] | LVS03691 [8] |
| | downstream | LVS03803 [3] | LVS03803 [3] | LVS03803 [3] | LVS03803 [3] |

| Mounting | | Rear connection with cables | |
|---|--------------|-----------------------------|---------------------|
| | | | |
| Devices | | Fixed device | Withdrawable device |
| | | MTZ1 06/16 | MTZ1 06/16 |
| Number of devices per row | | 1 | 1 |
| No. of vertical modules | | 11 | 11 |
| Mounting plates | | LVS03484 | LVS03483 |
| Front plates [No. of vertical modules] | upstream | LVS03801 [1] | - |
| | with cut-out | LVS03692 [7] | LVS03691 [8] |
| | downstream | LVS03803 [3] | LVS03803 [3] |

| Connection | | Upstream on incomer | | | | | | | | |
|------------------|--------------------------------|--|-----------|------------|-----------|---------------------|-----------|------------|-----------|--|
| | | | | | | | | | | |
| Devices | | Fixed device | | | | Withdrawable device | | | | |
| | | MTZ1 06/10 | | MTZ1 12/16 | | MTZ1 06/10 | | MTZ1 12/16 | | |
| | | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P | |
| Front connection | type of terminals | Front connections supplied with the device | | | | | | | | |
| | vert. connection adapters | 33642 (1) | 33643 (1) | 33642 (1) | 33643 (1) | 33642 (1) | 33643 (1) | 33642 (1) | 33643 (1) | |
| | cable-lug adapters | Direct | | 33644 (1) | 33645 (1) | Direct | | 33644 (1) | 33645 (1) | |
| | spacing rods | - | | LVS04691 | | - | | LVS04691 | | |
| | | arc-chute cover | 47335 | 47336 | 47335 | 47336 | - | | - | |
| | | cables cover | LVS04852 | | | | | | | |
| Rear connection | type of terminals | Vertical rear connections supplied with the device | | | | | | | | |
| | terminal extension bar support | 2 x LVS04693 | | | | | | | | |
| | cables cover | LVS04854 | | | | | | | | |
| | extension bars | must be made (2) | | | | | | | | |

| Distribution | | Downstream on Linergy LGY or BS busbars | | | | | | | |
|-------------------------------------|-------------|---|----------|----------|----------|---------------------|----------|----------|----------|
| | | | | | | | | | |
| Devices | | Fixed device | | | | Withdrawable device | | | |
| | | MTZ1 06/12 | | MTZ1 16 | | MTZ1 06/12 | | MTZ1 16 | |
| | | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| Type of terminals | | Front connections supplied with the device | | | | | | | |
| Prefabricated connection to busbars | Linergy LGY | LVS04475 | LVS04476 | LVS04489 | LVS04490 | LVS04477 | LVS04478 | LVS04491 | LVS04492 |
| | Linergy BS | must be made (2) | | | | | | | |
| Cover for busbars connection | | add free supports: 2 x LVS04662 LVS04926 | | | | | | | |

(1) Vertical connection adapters and cable-lug adapters and CT, are not compatible with input voltage $\geq 440V$ due to mandatory barriers installation (LVS33648 or LVS33768)

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Note: to make measurements: install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.

Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

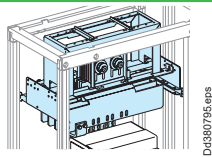
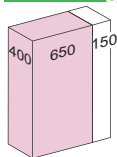
MasterPact MTZ1 06 to 16

Canalis connection

Toggle, motor mechanism - Fixed, withdrawable

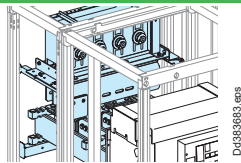
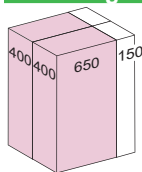
Circuit breakers

Mounting Canalis front connection



| Devices | Fixed device | | Withdrawable device | |
|---------------------------|-----------------------------|--------------|-----------------------------|---------|
| | MTZ1 06/12 | MTZ1 16 | MTZ1 06/12 | MTZ1 16 |
| Number of devices per row | 1 | - | 1 | - |
| No. of vertical modules | 17 | - | 18 | - |
| Mounting plates | LVS03484 | | LVS03483 | |
| Front plates | LVS03804 [4] + LVS03803 [3] | | LVS03804 [4] + LVS03803 [3] | |
| [No. of vertical modules] | upstream | - | - | - |
| | with cut-out | LVS03692 [7] | LVS03691 [8] | - |
| | downstream | LVS03803 [3] | LVS03803 [3] | - |

Mounting Canalis rear connection



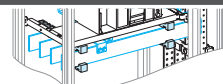
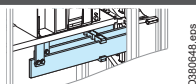
| Devices | Fixed device | | Withdrawable device | |
|---------------------------|--------------|--------------|---------------------|---------|
| | MTZ1 06/16 | MTZ1 16 | MTZ1 06/16 | MTZ1 16 |
| Number of devices per row | 1 | - | 1 | - |
| No. of vertical modules | 16 | - | 16 | - |
| Mounting plates | LVS03484 | | LVS03483 | |
| Front plates | LVS03806 [6] | | LVS03805 [5] | |
| [No. of vertical modules] | upstream | - | - | - |
| | with cut-out | LVS03692 [7] | LVS03691 [8] | - |
| | downstream | LVS03803 [3] | LVS03803 [3] | - |

Connection Upstream on incomer



| Devices | Fixed device | | | | Withdrawable device | | | |
|--------------------------------|--|----------|----------|----------|---------------------|----------|----------|----------|
| | MTZ1 06/12 | | MTZ1 16 | | MTZ1 06/12 | | MTZ1 16 | |
| | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| Canalis support | LVS03561 | | | | - | | | |
| Canalis interface (1) | LVS04703 | LVS04704 | LVS04703 | LVS04704 | LVS04703 | LVS04704 | LVS04703 | LVS04704 |
| Front connection | Front connections supplied with the device | | | | | | | |
| Type of terminals | - | | | | | | | |
| Canalis/device connection | LVS04711 | LVS04712 | - | - | LVS04711 | LVS04712 | - | - |
| Arc-chute cover | 47335 | 47336 | - | - | - | - | - | - |
| Canalis cover | LVS04871 + LVS04852 | | | | LVS04871 + LVS04852 | | | |
| Rear connection | Vertical rear connections supplied with the device | | | | | | | |
| Type of terminals | - | | | | | | | |
| Terminal extension bar support | 2 x LVS04693 | | | | - | | | |
| Canalis/device connection | LVS04713 | LVS04714 | LVS04713 | LVS04714 | LVS04713 | LVS04714 | LVS04713 | LVS04714 |
| Cable cover | LVS04871 + LVS04854 | | | | | | | |
| Extension bars | must be made (2) | | | | | | | |

Distribution Downstream on Linergy LGY or BS busbars



| Devices | Fixed device | | | | Withdrawable device | | | | |
|-------------------------------------|--|---------------------------------|----------|----------|---------------------|----------|----------|----------|----------|
| | MTZ1 06/12 | | MTZ1 16 | | MTZ1 06/12 | | MTZ1 16 | | |
| | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P | |
| Type of terminals | Front connections supplied with the device | | | | | | | | |
| Prefabricated connection to busbars | Linergy LGY | LVS04475 | LVS04476 | LVS04489 | LVS04490 | LVS04477 | LVS04478 | LVS04491 | LVS04492 |
| | Linergy BS | must be made (2) | | | | | | | |
| | | add free supports: 2 x LVS04662 | | | | | | | |
| Cover for busbars connection | LVS04926 | | | | | | | | |

(1) To tight the screws of the Canalis interface use the special tool 87808.
 (2) Connection to be made according to the busbar drawings supplied by Schneider Electric.
Note: to make measurements: install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801) or install a Micrologic control unit capable of displaying the values.
 Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

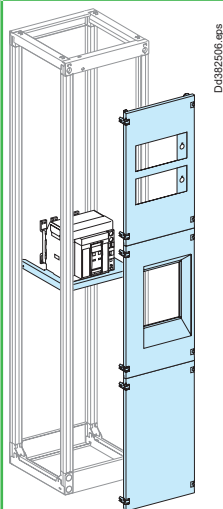
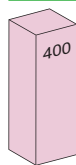
MasterPact MTZ1 06 to 16

Dedicated cubicle 3P - W = 400 mm

Fixed, withdrawable

Circuit breakers

Mounting



| Devices | Fixed device | Withdrawable device |
|-------------------------------|---|----------------------|
| | MTZ1 06 to MTZ1 16 | |
| Number of devices per cubicle | 1 | 1 |
| No. of vertical modules | 37 | 37 |
| Mounting plates | LVS03489 | LVS03488 |
| Front plates | LVS03698 [11] | LVS03699 [11] |
| [No. of vertical modules] | with cut-out upstream (1) cut-out for 72 x 72 or 96 x 96 mm | LVS03723 [13] |
| | or plain | LVS03722 [13] |
| | downstream (1) plain | LVS03722 [13] |

Measurement-device installation

Measurement devices are installed on a front plate (**LVS03723**) using plastic mounting plates with cut-outs. The front plate can hold:

- six 72 x 72 mm cases
- or four 96 x 96 mm cases + 2 switches.

| Number and type of devices per row | Metal front plate with cut-out | No. of vertical modules | Plastic mounting plates with cut-out | Blanking plate or device support |
|------------------------------------|--------------------------------|-------------------------|--------------------------------------|----------------------------------|
|------------------------------------|--------------------------------|-------------------------|--------------------------------------|----------------------------------|


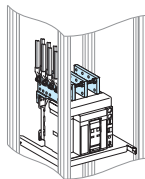
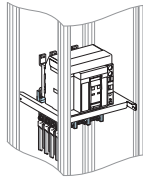
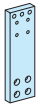


| Mounting on interface with plastic mounting plates | | | | |
|---|---|----|--|--|
| 3 x 72 x 72 Vigirex and other devices 72 x 72 without switch | | 13 | | To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45 |
| 2 x 96 x 96 Power Meter and others devices 96 x 96 or 1 x 96 x 96 (2) For PM200, 200P, PM5 & PM8 series meters | | | | To blank-off or install: - 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45 - 1 device 72 x 72 |
| Characteristics | <ul style="list-style-type: none"> ■ Installation of three devices (72 x 72 mm cases) using plastic mounting plates (LVS03902) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (LVS03903) on a hinged front plate (LVS03723) ■ The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices. Knock-outs for LVS03900: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device. Knock-outs for LVS03901: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device. | | | |

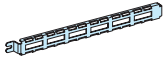
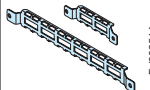
(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.
 (2) For PM200, 200P, PM5 & PM8 series meters, use 1 no. blank-off sheet with each meter in a row.


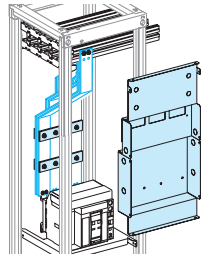
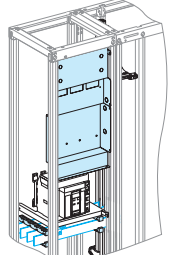
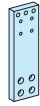
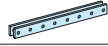

MasterPact MTZ1 06 to 16

Dedicated cubicle 3P - W = 400 mm
Fixed, withdrawable

Circuit breakers

| Connection | Upstream on incomer | |
|---|---|--|
|  |  D4382072_1.eps |  D4382069.eps |
| Devices | Fixed device | Withdrawable device |
| | MTZ1 06 to MTZ1 16 | |
| Type of terminals  | Front connection | Front connection |
| Arc-chute cover  | 47335 | - |
| Vert. conn. adapters | 33642 (1) | 33642 (1) |
| Cable-lug adapters | 33644 (1) | 33644 (1) |
| Spacing rods  | LVS04691 | LVS04691 |

| Accessories | | |
|--|---|--|
| |  D48825 13.eps |  D48825 14.eps |
| | W = 400 | D = 400 D = 600 |
| 4 cable tie supports for framework | LVS08774 | LVS08794 LVS08794 + LVS08796 |
| (1) Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V. | | |

| Distribution | Downstream on horizontal busbars | | Downstream on vertical busbars |
|--|---|---|---|
| | Linergy LGYE | Linergy BS | Linergy LGY or BS |
|  |  D0385890.eps | |  D0385814.eps |
| Fixed / withdrawable devices | MTZ1 06 to MTZ1 16 | | MTZ1 06 to MTZ1 16 |
| Type of terminals  | Front connection | Front connection | Front connection |
| Support  | 2 x LVS04692 For MTZ1 H1 & H2 3 x LVS04692 For MTZ1 H3 | 2 x LVS04692 For MTZ1 H1 & H2 3 x LVS04692 For MTZ1 H3 | LVS04662 |
| Barrier (1)  | LVS04855 | LVS04855 | LVS04855 |
| Horizontal-busbar connections | must be made (2) | must be made (2) | - |
| 10 mm thickness bars | - | LVS04636 (3) | - |
| Vertical-busbar connections | - | - | must be made (2) |
| Free support | - | - | LVS04662 |

(1) A barrier must be installed behind front plate **LVS03723** when measurement devices are installed.
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.
(3) Catalog number **LVS04636** includes 1 connection only. Order 1 connection per phase.

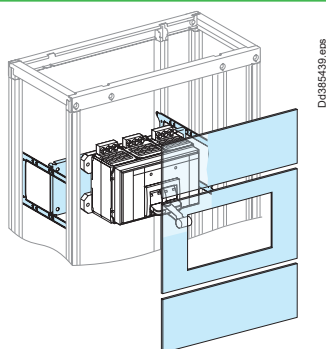
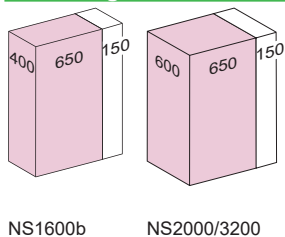
ComPacT NS1600b to 3200

Cables connection

Fixed

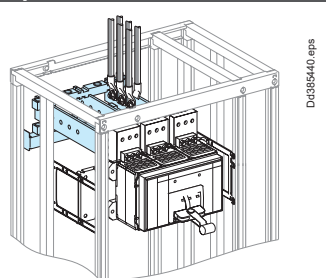
Circuit breakers

Mounting Front connection



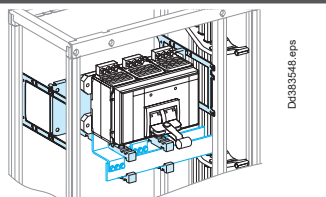
| Devices | | Fixed device | |
|---|--------------|--------------|--------------|
| | | NS1600b | NS2000/3200 |
| Number of devices per row | | 1 | 1 |
| No. of vertical modules | | 14 | 16 |
| Mounting plates | | LVS03501 | LVS03501 |
| Front plates [No. of vertical modules] | upstream | LVS03802 [2] | LVS03802 [2] |
| | with cut-out | LVS03716 [8] | LVS03716 [8] |
| | downstream | LVS03804 [4] | LVS03806 [6] |

Connection Upstream on incomer



| Fixed devices | | NS1600b/2500 | NS3200 |
|--------------------------------|----|--|--------|
| Type of terminals | | Front connections supplied with the device | |
| Vertical-connection adapters | 3P | 33975 | 33975 |
| | 4P | 33976 | 33976 |
| Terminal extension bar support | | LVS04694 | |
| Extension bars | | must be made (1) | |

Distribution Downstream on Linergy LGY, LGYE or BS busbars



| Fixed devices | | NS1600b | NS2000/2500 | NS3200 |
|-------------------------------------|--|--|-------------|----------|
| Type of terminals | | Front connections supplied with the device | | |
| Busbars connection | | must be made (1) (2) | | |
| Free support for busbars connection | | 2 x LVS04662 | | |
| Cover for busbars connection | | LVS04926 | LVS04926 | LVS04926 |
| Additional cover | | - | LVS04927 | LVS04927 |

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric. LGYE: +17.5 mm than BS.

(2) For the connection to flat busbars > 1600 A, order one joint per phase:

- 1 joint for busbars, W = 50/60 mm (LVS04640)
- 1 joint for busbars, W = 80/100 mm (LVS04641)

Note: to make measurements:

- install the CTs on the horizontal busbars (busbar connection); in this case, an additional module is required; add a plain front plate (LVS03801)
- or install a Micrologic control unit capable of displaying the values.

Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

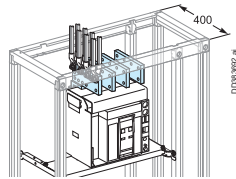
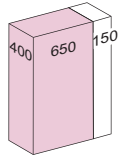
ComPacT NS630b to NS1600

Cables connection

Toggle, rotary handle, motor mechanism - Fixed, withdrawable

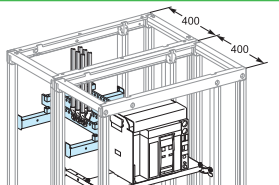
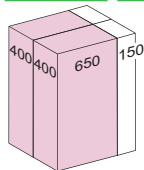
Circuit breakers

Mounting Front connection with cables



| Devices | | Fixed device | | Withdrawable device | |
|---|--------------|------------------------------|--------------|---------------------|--------------|
| | | NS630b/1000 | NS1250/1600 | NS630b/1000 | NS1250/1600 |
| Number of devices per row | | 1 | 1 | 1 | 1 |
| No. of vertical modules | | 12 | 14 | 13 | 15 |
| Mounting plates | | LVS03482 | LVS03482 | LVS03483 | LVS03483 |
| Front plates [No. of vertical modules] | upstream | LVS03802 [2] | LVS03804 [4] | LVS03802 [2] | LVS03804 [4] |
| | with cut-out | LVS03690 or LVS03701 (1) [7] | | LVS03691 [8] | LVS03691 [8] |
| | downstream | LVS03803 [3] | LVS03803 [3] | LVS03803 [3] | LVS03803 [3] |

Mounting Rear connection with cables



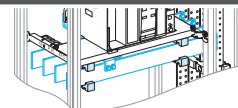
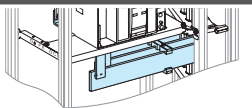
| Devices | | Fixed device | Withdrawable device |
|---|--------------|------------------------------|---------------------|
| | | NS630b/1600 | NS630b/1600 |
| Number of devices per row | | 1 | 1 |
| No. of vertical modules | | 10 | 11 |
| Mounting plates | | LVS03482 | LVS03483 |
| Front plates [No. of vertical modules] | with cut-out | LVS03690 or LVS03701 (1) [7] | LVS03691 [8] |
| | downstream | LVS03803 [3] | LVS03803 [3] |

Connection Upstream on incomer



| Devices | | Fixed device | | | | Withdrawable device | | | |
|------------------|--------------------------------|--|-----------|--------------|-----------|---------------------|-----------|--------------|-----------|
| | | NS630b/1000 | | NS1250/1600 | | NS630b/1000 | | NS1250/1600 | |
| | | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| Front connection | Type of terminals | Front connections supplied with the device | | | | | | | |
| | Vertical connection adapters | 33642 (3) | 33643 (3) | 33642 (3) | 33643 (3) | 33642 (3) | 33643 (3) | 33642 (3) | 33643 (3) |
| | Cable-lug adapters | Direct | | 33644 (3) | 33645 (3) | Direct | | 33644 (3) | 33645 (3) |
| | Spacing rods | - | | LVS04691 (3) | | - | | LVS04691 (3) | |
| | Arc-chute cover | 33596 | 33597 | 33596 | 33597 | - | | - | |
| Rear connection | Cables cover | LVS04851 | | | | LVS04852 | | | |
| | Type of terminals | Vertical rear connections supplied with the device | | | | | | | |
| | Terminal extension bar support | 2 x LVS04693 | | | | | | | |
| | Cables cover | LVS04853 | | | | LVS04854 | | | |
| | Extension bars | must be made (2) | | | | | | | |

Connection Downstream distribution via Linergy LGY or BS busbars



| Devices | | Fixed device | | | | Withdrawable device | | | |
|-------------------------------------|--|---|----------|----------|----------|---------------------|----------|----------|----------|
| | | NS630b/1250 | | NS1600 | | NS630b/1250 | | NS1600 | |
| | | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| Type of terminals | | Front connections supplied with the device | | | | | | | |
| Busbars connection | | For Linergy LGY busbars: prefabricated connection | | | | | | | |
| | | LVS04485 | LVS04486 | LVS04487 | LVS04488 | LVS04477 | LVS04478 | LVS04491 | LVS04492 |
| | | For Linergy BS busbars: must be made (2). | | | | | | | |
| Free support for busbars connection | | For Linergy BS busbars: 2 x LVS04662 | | | | | | | |
| Cover for busbars connection | | LVS04926 | | | | | | | |

- (1) For devices with toggle or rotary handle Catalog number LVS03690, with a motor mechanism Catalog number LVS03701.
- (2) Connection to be made according to the busbar drawings supplied by Schneider Electric.
- (3) Vertical connection adaptaters and cable-lug adapters and CT, are not compatible with input voltage ≥ 500V due to mandatory barriers installation (33648 or 33768).

Note: to make measurements:
 ■ install a Micrologic control unit capable of displaying the values.
 ■ or install the CTs on the horizontal busbars; in this case, an additional module is required; add a plain front plate downstream (LVS03801).
 Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

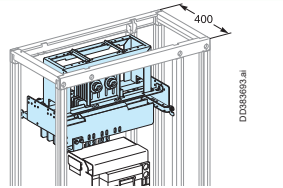
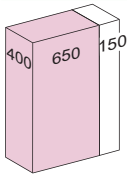
ComPacT NS630b to 1600

Canalis connection

Toggle, rotary handle, motor mechanism - Fixed, withdrawable

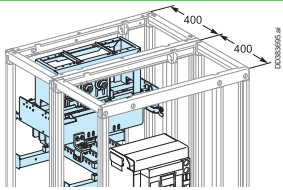
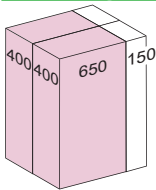
Circuit breakers

Mounting Canalis front connection



| Devices | Fixed device | | Withdrawable device | |
|---------------------------|---|--------|-----------------------------|--------|
| | NS630b/1250 | NS1600 | NS630b/1250 | NS1600 |
| Number of devices per row | 1 | - | 1 | - |
| No. of vertical modules | 17 | - | 18 | - |
| Mounting plates | LVS03482 | - | LVS03483 | - |
| Front plates | upstream LVS03804 [4] + LVS03803 [3] | - | LVS03804 [4] + LVS03803 [3] | - |
| [No. of vertical modules] | with cut-out LVS03690 or LVS03701 (1) [7] | - | LVS03691 [8] | - |
| | downstream LVS03803 [3] | - | LVS03803 [3] | - |

Mounting Canalis rear connection



| Devices | Fixed device | | Withdrawable device | |
|---------------------------|---|--|---------------------|--|
| | NS630b/1600 | | NS630b/1600 | |
| Number of devices per row | 1 | | 1 | |
| No. of vertical modules | 16 | | 16 | |
| Mounting plates | LVS03482 | | LVS03483 | |
| Front plates | upstream LVS03806 [6] | | LVS03805 [5] | |
| [No. of vertical modules] | with cut-out LVS03690 or LVS03701 (1) [7] | | LVS03691 [8] | |
| | downstream LVS03803 [3] | | LVS03803 [3] | |

Connection Upstream on incomer

| Devices | Fixed device | | Withdrawable device | |
|-----------------------|--------------------------------|--|---------------------|---------------------|
| | NS630b/1600 | | NS630b/1600 | |
| Canalis support | LVS03561 | 4P - | 3P - | 4P - |
| Canalis interface (2) | LVS04703 | LVS04704 | LVS04703 | LVS04704 |
| Front connection | Type of terminals | Front connections supplied with the device | | |
| | Canalis/device | LVS04711 | LVS04712 | LVS04711 LVS04712 |
| | Arc-chute cover | 33596 | 33597 | - |
| | Canalis cover | LVS04871 + LVS04851 | | LVS04871 + LVS04852 |
| Rear connection | Type of terminals | Vertical rear connections supplied with the device | | |
| | Terminal extension bar support | 2 x LVS04693 | | |
| | Extension bars | must be made (3) | | |
| | Canalis/device connection | - | - | LVS04713 LVS04714 |
| | Canalis cover | LVS04871 + LVS04854 | | LVS04871 + LVS04854 |

Connection Downstream distribution via Linergy LGY or BS busbars

| Devices | Fixed device | | | | Withdrawable device | | | |
|-------------------------------------|--|----------|-------------|----------|---|----------|-------------|----------|
| | NS630b/1250 | NS1600 | NS630b/1250 | NS1600 | NS630b/1250 | NS1600 | NS630b/1250 | NS1600 |
| Type of terminals | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| Busbars connection | Front connections supplied with the device | | | | For Linergy LGY busbars: prefabricated connection | | | |
| | LVS04485 | LVS04486 | LVS04487 | LVS04488 | LVS04477 | LVS04478 | LVS04491 | LVS04492 |
| | | | | | Can be reversed for upstream supply | | | |
| | | | | | For Linergy BS busbars: must be made (3) | | | |
| Free support for busbars connection | For Linergy BS busbars: 2 x LVS04662 | | | | | | | |
| Cover for busbars connection | LVS04926 | | | | | | | |

(1) For devices with toggle or rotary handle Catalog number LVS03690, with a motor mechanism Catalog number LVS03701.

(2) To tight the screws of the Canalis interface use the special tool 87808.

(3) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Note: to make measurements:

■ install a Micrologic control unit capable of displaying the values.

■ or install the CTs on the horizontal busbars; in this case, an additional module is required; add a plain front plate downstream (LVS03801).

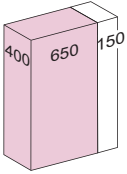
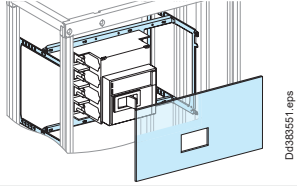
Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

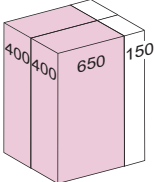
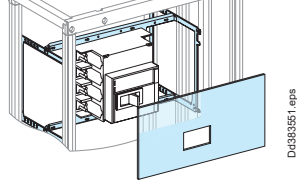
ComPacT NS630b to 1000


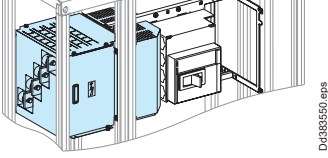
Horizontal mounting


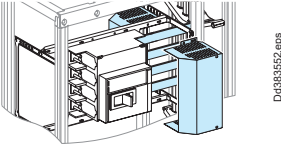
Toggle, rotary handle - Fixed

Circuit breakers

| Mounting | Front connection |
|---|---|
|  |  |
| Devices | Fixed device NS630b/1000 |
| Number of devices per row | 1 |
| No. of vertical modules | 7 (1) |
| Mounting plates | LVS03480 |
| Front plates with cut-outs | LVS03687 |

| Mounting | Rear connection |
|---|---|
|  |  |
| Devices | Fixed device NS630b/1000 |
| Number of devices per row | 1 |
| No. of vertical modules | 7 (1) |
| Mounting plates | LVS03480 |
| Front plates with cut-outs | LVS03687 |

| Connection | Upstream on incomer |
|---|---|
|  |  |
| Fixed devices | NS630b/1000 3P 4P |
| Type of terminals | front connection Front connections supplied with the device rear connection Vertical rear connections supplied with the device |
| Connection transfert assembly for front connection | LVS04483 LVS04484 If cubicle w300 mm then 3x300 mm ² , if cubicle w400 mm then 4x300 mm ² , same concept for 185 mm ² . Three 300 mm ² or six 185 mm ² cables can be connected per phase with lugs that are not of the two-metal type. |
| Cover rear connection | - |

| Connection | Downstream via Linergy LGY, LGYE or BS busbars |
|---|---|
|  |  |
| Fixed devices | NS630b/1000 3P 4P |
| Type of terminals | Front connections supplied with the device |
| Busbars connection | For Linergy LGY busbars: prefabricated connection LVS04473 LVS04474 must be made. For Linergy LGYE (> page G-13) and Linergy BS busbars |
| Cover for busbars connection | LVS04842 |
| Arc-chute cover | 33596 33597 |

(1) Mounting of **LVS03480** + connection transfert assembly **LVS04483** or **LVS04484** needs 8 vertical modules (use of one complementary front plate 1 module **LVS03801**) at the bottom of the functional unit.

Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

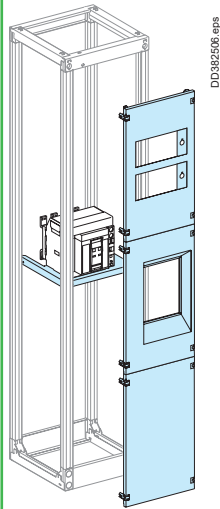
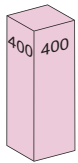
ComPacT NS630b to 1600

Dedicated cubicle - W = 400 mm

Fixed, withdrawable

Circuit breakers

Mounting Toggle, rotary handle and motor mechanism



| Devices | Fixed device | Withdrawable device |
|-------------------------------|---|-----------------------|
| | NS630b/1600 3/4P | NS630b/1600 3P |
| Number of devices per cubicle | 1 | 1 |
| No. of vertical modules | 37 | 37 |
| Mounting plates | LVS03487 | LVS03488 |
| Front plates | with cut-out LVS03697 [11] | LVS03699 [11] |
| [No. of vertical modules] | upstream (1) with cut-out for 72 x 72 or 96 x 96 mm meters LVS03723 [13] | LVS03723 [13] |
| | or plain LVS03722 [13] | LVS03722 [13] |
| | downstream (1) plain LVS03722 [13] | LVS03722 [13] |

Measurement-device installation

Measurement devices are installed on a front plate (**LVS03723**) using plastic mounting plates with cut-outs. The front plate can hold:

- six 72 x 72 mm cases
- or four 96 x 96 mm cases + 2 switches.

| Number and type of devices per row | Metal front plate with cut-out | No. of vertical modules | Plastic mounting plates with cut-out | Blanking plate or device support |
|------------------------------------|--------------------------------|-------------------------|--------------------------------------|----------------------------------|
|------------------------------------|--------------------------------|-------------------------|--------------------------------------|----------------------------------|

| Mounting on an interface with plastic mounting plates | | | | |
|--|---|----|-----------------|---|
| 3 x 72 x 72 Vigirex and other devices 72 x 72 without switch | | 13 | | <p>To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45</p> |
| 2 x 96 x 96 Power Meter and other devices 96 x 96 with switch | | | | <p>To blank-off or install: - from 1 to 4 buttons Ø 16 or 22 mm - 1 device 45 x 45 - 1 device 72 x 72</p> |
| Characteristics | LVS03723 | | LVS03903 | LVS03901 |
| | <ul style="list-style-type: none"> ■ Installation of three devices (72 x 72 mm cases) using plastic mounting plates (LVS03902) and two devices (96 x 96 mm cases) + a switch using plastic mounting plates (LVS03903) on a hinged front plate (LVS03723) ■ The plain mounting plates have knock-outs for lamps, pushbuttons, switches or devices. Knock-outs for LVS03900: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 mm device. Knock-outs for LVS03901: 4 Ø 16 mm, 5 Ø 22 mm or one for a 45 x 45 or 72 x 72 mm device. | | | |


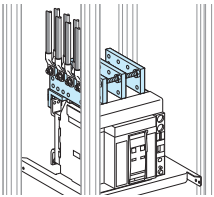
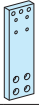


(1) Hinged or reversible (left or right-hand opening) front plates connect directly to the framework, without a front-plate support frame.

ComPacT NS630b to 1600

Dedicated cubicle - W = 400 mm

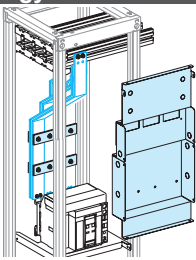
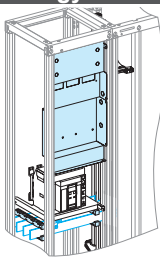
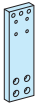
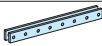

Fixed, withdrawable

Circuit breakers

| Connection | | Upstream on incomer | |
|---|---|---|------------------|
|  | |  | |
| Devices | | Fixed device | |
| | | NS630b/1600 | |
| | | 3P | 4P |
| Type of terminals |  | Front connection | |
| Arc-chute cover |  | 33596 | 33597 |
| Vert. conn. adapters | | 33642 (1) | 33643 (1) |
| Cable-lug adapters | | 33644 (1) | 33645 (1) |
| Spacing rods |  | LVS04691 | |
| | | Withdrawable device | |
| | | 3P | |
| | | Front connection | |

| Accessories | | | |
|------------------------------------|--|--|---|
| | |  |  |
| | | W = 400 | D = 400 |
| 4 cable tie supports for framework | | LVS08774 | LVS08794 |
| | | | D = 600 |
| | | | LVS08794 + LVS08796 |

(1) Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V.

| Distribution | Connection to horizontal busbars | | | | Connection to vertical busbars | | |
|-------------------------------|---|---|---------------------|---|--------------------------------|--------------------|-----------------------|
| | Linergy LGYE | | Linergy BS | | Linergy LGY or BS | | |
| | |  | |  | | | |
| Devices | | Fixed | Withdrawable | Fixed | Withdrawable | Fixed | Withdrawable |
| | | NS630b/1600 | NS630b/1600 | NS630b/1600 | NS630b/1600 | NS630b/1600 | NS630b/1600 3P |
| | | 3P/4P | 3P | 3P/4P | 3P | 3P/4P | 3P |
| Type of terminals |  | Front connection | Front connection | Front connection | Front connection | Front connection | Front connection |
| Support |  | 2 x LVS04692 | 2 x LVS04692 | 2 x LVS04692 | 2 x LVS04692 | - | - |
| Barrier (1) |  | LVS04855 | LVS04855 | LVS04855 | LVS04855 | LVS04855 | LVS04855 |
| Horizontal-busbar connections | | must be made (2) | | - | - | - | - |
| | 50/60/80 | - | - | LVS04636 (3) | LVS04636 | - | - |
| Vertical-busbar connections | | - | - | - | - | must be made (2) | |
| Free support | | - | - | - | - | LVS04662 | |

(1) A barrier must be installed behind front plate **LVS03723** when measurement devices are installed.

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(3) Catalog number **LVS04636** includes 1 connection only. Order 1 connection per phase.

Connection device/horizontal busbar to make by customer.

Busbar selection Linergy BS to make connection: > page G-3 and page G-6.

Busbar selection Linergy LGYE or LGY: > page G-2 and page G-4.

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Horizontal mounting

Toggle - Fixed



Designed for PowerTag NSX
Circuit breakers

| Mounting | | Horizontal fixed | | | | | | | |
|------------------------------|------------------------------|---|--------------|---|--------------|--------------------------------------|--------------|------------------------|--------------|
| | | | | | | | | | |
| Devices | | Toggle | | | | | | | |
| | | NSX (1) / NSX Vigi (ELCB) (1) / Vigi NSX 100/160/250 | | NSX (1) / NSX Vigi (ELCB) (1) 400/630 | | Vigi NSX 400/630 | | | |
| | | 3P | 4P | 3P | 4P | 3P | 4P | | |
| Number of devices per row | | 1 | 1 | 1 | 1 | 1 | 1 | | |
| PowerTag NSX compatibility | | ↯ | ↯ | ↯ | ↯ | - | - | | |
| No. of vertical modules | | 3 | 4 | 4 | 5 | 4 | 5 | | |
| Mounting plates | | LVS03411 | LVS03412 | LVS03451 | LVS03452 | LVS03451 | LVS03452 | | |
| Front plates | with cut-out | LVS03604 (2) | LVS03606 (2) | LVS03643 | LVS03644 | LVS03643 | LVS03644 | | |
| Connection | | Upstream from lateral busbars | | | | | | | |
| Fixed devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | | | | | |
| Linery LGY | | 3P | | 4P | | 3P | | 4P | |
| | | | | | | | | | |
| Prefabricated connection | | LVS04423 (4) | | LVS04424 (4) | | LVS04453 | | LVS04454 | |
| Linery BS, LGYE | | | | | | | | | |
| | | | | | | | | | |
| Connection | | must be made (3) | | | | | | | |
| Long terminal shields | | LV429517 | | LV429518 | | LV432593 | | LV432594 | |
| Connection | | Downstream distribution | | | | | | | |
| | | | | | | | | | |
| Fixed devices | | NSX / NSX Vigi (ELCB) 100/250 | | Vigi NSX100/250 | | NSX / NSX Vigi (ELCB) 400/630 | | Vigi NSX400/630 | |
| | | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| Front connection | long terminal shields | LV429517 | LV429518 | LV429517 | LV429518 | LV432593 | LV432594 | LV432593 | LV432594 |
| Connection transfer assembly | connection | LVS04425 | LVS04426 | LVS04429 (5) | LVS04430 (5) | LVS04455 | LVS04456 | LVS04459 (5) | LVS04460 (5) |
| | connection with PowerTag NSX | LVS04425 | LVS04426 | - | - | LVS04459 (5) | LVS04460 (5) | - | - |
| Rear connection | long terminal shields | - | - | LV429517 | LV429518 | - | - | LV432593 | LV432594 |
| | short terminal shields | LV429515 (4) | LV429516 (4) | LV429515 (4) | LV429516 (4) | LV432591 (4) | LV432592 (4) | LV432591 (4) | LV432592 (4) |
| | short rear connectors | LV429235 | | LV429235 | | LV432475 | | LV432475 | |
| | long rear connectors | LV429236 | | LV429236 | | LV432476 | | LV432476 | |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Connections must be made with insulated flexible bars > page G-20.

(4) Compatible with Linery LGYE vertical busbar.

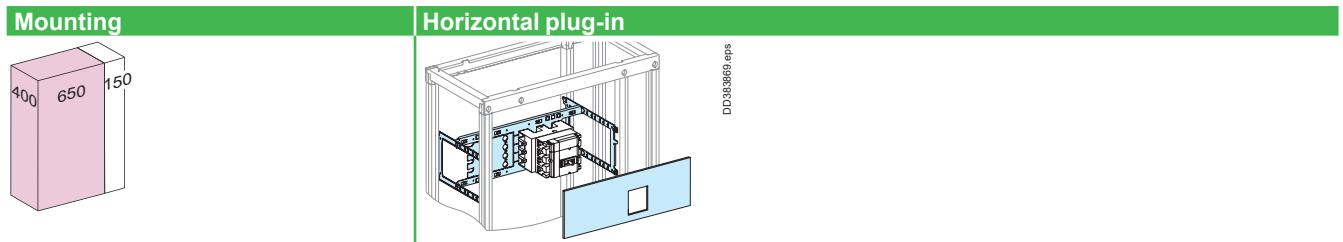
(5) Complete the connection with insulated flexible bars (not supplied).

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Horizontal mounting

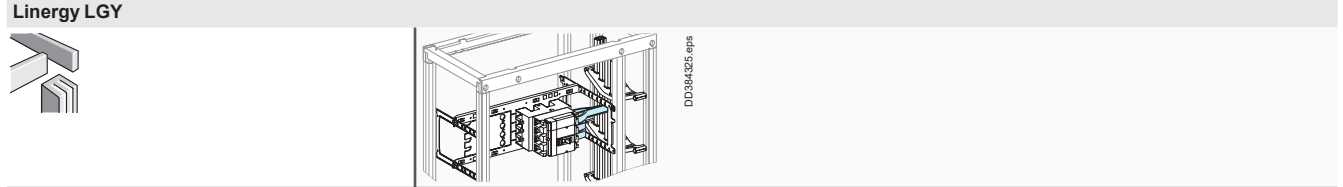
Toggle - Plug-in

Circuit breakers

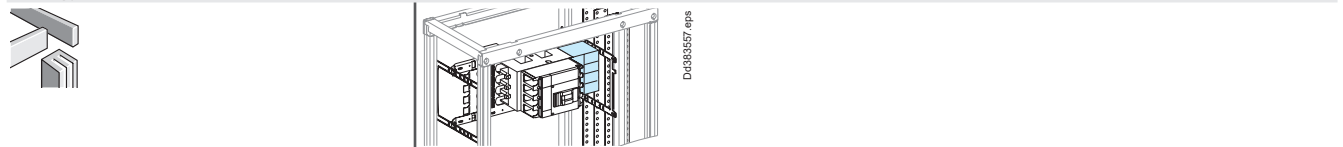


| Mounting | Horizontal plug-in | | | |
|---------------------------|--|--------------|--|----------|
| Devices | Toggle | | NSX (1) / NSX Vigi (ELCB) (1) / Vigi NSX 400/630 | |
| | NSX (1) / NSX Vigi (ELCB) (1) / Vigi NSX 100/160/250 | | NSX (1) / NSX Vigi (ELCB) (1) / Vigi NSX 400/630 | |
| | 3P | 4P | 3P | 4P |
| Number of devices per row | 1 | 1 | 1 | 1 |
| No. of vertical modules | 3 | 4 | 4 | 5 |
| Mounting plates | LVS03413 | LVS03414 | LVS03453 | LVS03454 |
| Front plates | with cut-out | LVS03604 (2) | LVS03606 (2) | LVS03643 |
| | | LVS03606 (2) | LVS03643 | LVS03644 |

| Connection | Upstream from lateral busbars | | | |
|------------------------|--|----|--|----|
| Plug-in devices | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
| | 3P | 4P | 3P | 4P |

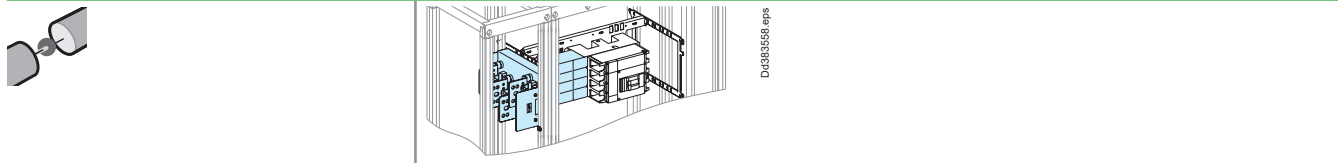


| | | | | |
|----------------------------------|--------------|--------------|----------|----------|
| Linery LGY | | | | |
| Prefabricated connection | LVS04431 (3) | LVS04432 (3) | LVS04461 | LVS04462 |
| Short terminal shields on device | LV429515 | LV429516 | LV432591 | LV432592 |



| | | | | |
|---------------------------------------|--|----------|----------|----------|
| Linery BS, LGYE | | | | |
| Connection | must be made with insulated flexible bars > page G-20. | | | |
| Connection adapter for plug-in base | LV429306 | LV429307 | LV432584 | LV432585 |
| Long terminal shields on plug-in base | LV429517 | LV429518 | LV432593 | LV432594 |
| Short terminal shields on device | LV429515 | LV429516 | LV432591 | LV432592 |

| Connection | Downstream distribution | | | |
|------------|-------------------------|--|--|--|
|------------|-------------------------|--|--|--|



| | | | | |
|------------------------------|--|--------------|--|--------------|
| Plug-in devices | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
| | 3P | 4P | 3P | 4P |
| Front connection | connection adapter for plug-in base | LV429306 | LV429307 | LV432584 |
| | short terminal shields on device | LV429515 | LV429516 | LV432591 |
| | long terminal shields on plug-in base | LV429517 | LV429518 | LV432593 |
| | long terminal shields on device | LV429515 | LV429516 | LV432591 |
| Connection transfer assembly | connection | LVS04429 (4) | LVS04430 (4) | LVS04459 (4) |
| | connection adapter for plug-in base | LV429306 | LV429307 | LV432584 |
| | short terminal shields | LV429515 | LV429516 | LV432591 |
| | long terminal shields | LV429517 | LV429518 | LV432593 |
| Rear connection | short terminal shields | 2 x LV429515 | 2 x LV429516 | 2 x LV432591 |
| | short rear connectors | LV429235 | LV429235 | LV432475 |
| | long rear connectors | LV429236 | LV429236 | LV432476 |
| | connection adapter for plug-in base | LV429306 | LV429307 | LV432584 |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Compatible with FDM121.

(3) Compatible with Linery LGYE vertical busbar.

(4) Complete the connection with insulated flexible bars (not supplied).

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

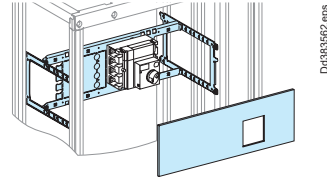
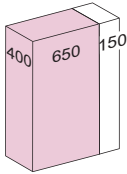
Horizontal mounting

Rotary handle, motor mechanism - Fixed



Designed for PowerTag NSX
Circuit breakers

Mounting Horizontal Fixed



| Devices | Rotary handle, motor mechanism | | | | | | | | | | |
|--------------------------------|---|--------------|----------------------|--------------|---------------------------------------|----------|-----------------|----------|------------------|----------|----------|
| | NSX (1) / NSX Vigi (ELCB) (1) 100/160/250 | | Vigi NSX 100/160/250 | | NSX (1) / NSX Vigi (ELCB) (1) 400/630 | | | | Vigi NSX 400/630 | | |
| | 3P | 4P | 3P | 4P | rotary handle | | motor mechanism | | rotary handle | | |
| Number of devices per row | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| PowerTag NSX compatibility | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | ☺ | - | - | - |
| No. of vertical modules | 3 | 4 | 3 | 4 | 4 | 5 | 4 | 5 | 4 | 5 | - |
| Mounting plates | LVS03413 | LVS03414 | LVS03413 | LVS03414 | LVS03453 | LVS03454 | LVS03453 | LVS03454 | LVS03453 | LVS03454 | LVS03454 |
| Fixing kit for control support | - | - | - | - | - | - | LVS03460 | LVS03460 | - | - | - |
| Front plates with cut-out | LVS03604 (2) | LVS03606 (2) | LVS03604 (2) | LVS03606 (2) | LVS03643 | LVS03644 | LVS03643 | LVS03644 | LVS03643 | LVS03644 | LVS03644 |
| Collar | - | - | LV429285 | LV429285 | - | - | LV429285 | LV429285 | LV429285 | LV429285 | LV429285 |

Connection Upstream from lateral busbars

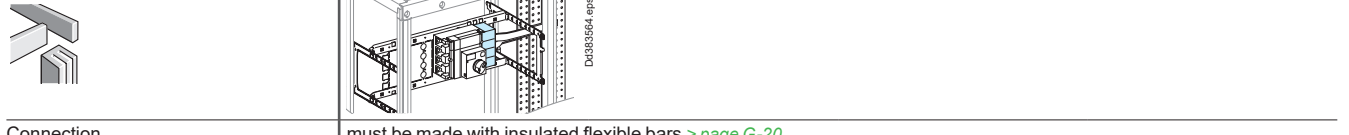
| Fixed devices | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
|---------------|--|----|--|----|
| | 3P | 4P | 3P | 4P |

Linery LGY



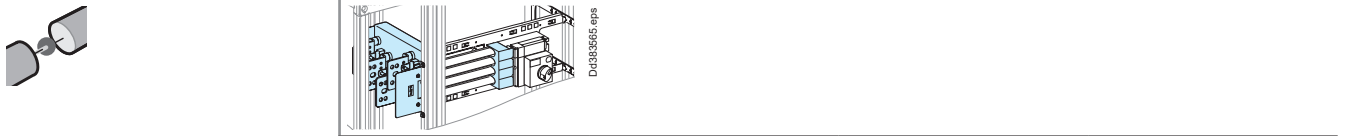
| | | | | |
|-----------------------|--------------|--------------|--|----------|
| Connection | LVS04427 (3) | LVS04428 (3) | must be made with insulated flexible bars > page G-20 (4). | |
| Long terminal shields | - | - | LV432593 | LV432594 |

Linery BS, LGYE



| | | | | |
|-----------------------|--|----------|----------|----------|
| Connection | must be made with insulated flexible bars > page G-20. | | | |
| Long terminal shields | LV429517 | LV429518 | LV432593 | LV432594 |

Connection Downstream distribution



| Fixed devices | | NSX / NSX Vigi (ELCB) / Vigi NSX | | | |
|------------------------------|---|----------------------------------|--------------|--------------|--------------|
| | | 100/160/250 | | 400/630 | |
| | | 3P | 4P | 3P | 4P |
| Front connection | long terminal shields | LV429517 | LV429518 | LV432593 | LV432594 |
| Connection transfer assembly | connection with or without PowerTag NSX | LVS04429 (5) | LVS04430 (5) | LVS04459 (5) | LVS04460 (5) |
| | long terminal shields | LV429517 | LV429518 | LV432593 | LV432594 |
| Rear connection | short terminal shields | LV429515 | LV429516 | LV432591 | LV432592 |
| | short rear connectors | LV429235 | - | LV432475 | - |
| | long rear connectors | LV429236 | - | LV432476 | - |

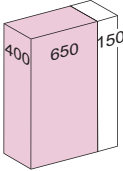
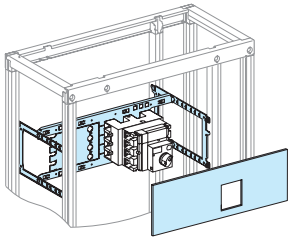


(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.
 (2) Compatible with FDM121.
 (3) Compatible with Linery LGYE vertical busbar.
 (4) To be made according to the busbar drawings supplied by Schneider Electric.
 (5) Complete the connection with insulated flexible bars (not supplied).

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Horizontal mounting

Rotary handle, motor mechanism - Plug-in

Circuit breakers

| Mounting | | Horizontal plug-in | | | | | | | |
|---|-------------------------------------|---|--------------|-----------------------------|--------------|---|--------------|--|--------------|
|  | |  | | | | | | | |
| Devices | | Rotary handle, motor mechanism | | | | | | | |
| | | NSX (1) / NSX Vigi (ELCB) (1) 100/160/250 | | Vigi NSX 100/160/250 | | NSX (1) / NSX Vigi (ELCB) (1) 400/630 | | Vigi NSX 400/630 rotary handle NSX400/630 motor mechanism | |
| | | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| Number of devices per row | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| No. of vertical modules | | 3 | 4 | 3 | 4 | 4 | 5 | 4 | 5 |
| Mounting plates | | LVS03413 | LVS03414 | LVS03413 | LVS03414 | LVS03453 (2) | LVS03454 (2) | LVS03453 (2) | LVS03454 (2) |
| Front plates with cut-out | | LVS03604 (3) | LVS03606 (3) | LVS03604 (3) | LVS03606 (3) | LVS03643 | LVS03644 | LVS03643 | LVS03644 |
| Collar | | - | - | LV429285 | LV429285 | - | - | LV429285 | LV429285 |
| Connection | | Upstream from lateral busbars | | | | | | | |
| Plug-in devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | | | |
| | | 3P | | 4P | | 3P | | 4P | |
| Linery LGY | |  | | | | | | | |
| Connection | | LVS04427 (4) | | LVS04428 (4) | | must be made with insulated flexible bars > page G-20 (5) | | | |
| Short terminal shields | | LV429515 | | LV429516 | | LV432591 | | LV432592 | |
| Long terminal shields | | - | | - | | LV432593 | | LV432594 | |
| Connection adapter for plug-in base | | LV429306 | | LV429307 | | LV432584 | | LV432585 | |
| Linery BS, LGYE | |  | | | | | | | |
| Connection | | must be made with insulated flexible bars > page G-20. | | | | | | | |
| Short terminal shields | | LV429515 | | LV429516 | | LV432591 | | LV432592 | |
| Long terminal shields | | LV429517 | | LV429518 | | LV432593 | | LV432594 | |
| Connection adapter for plug-in base | | LV429306 | | LV429307 | | LV432584 | | LV432585 | |
| Connection | | Downstream distribution | | | | | | | |
| Plug-in devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | | | |
| | | 3P | | 4P | | 3P | | 4P | |
| Front connection | long terminal shields | LV429517 | | LV429518 | | LV432593 | | LV432594 | |
| | short terminal shields | LV429515 | | LV429516 | | LV432591 | | LV432592 | |
| | connection adapter for plug-in base | LV429306 | | LV429307 | | LV432584 | | LV432585 | |
| Connection transfer assembly | connection | LVS04429 (6) | | LVS04430 (6) | | LVS04459 (6) | | LVS04460 (6) | |
| | long terminal shields | LV429517 | | LV429518 | | LV432593 | | LV432594 | |
| | short terminal shields | LV429515 | | LV429516 | | LV432591 | | LV432592 | |
| Rear connection | short terminal shields | 2 x LV429515 | | 2 x LV429516 | | 2 x LV432591 | | 2 x LV432592 | |
| | short rear connectors | LV429235 | | - | | LV432475 | | - | |
| | long rear connectors | LV429236 | | - | | LV432476 | | - | |
| | connection adapter for plug-in base | LV429306 | | LV429307 | | LV432584 | | LV432585 | |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Catalog number LVS03460 is recommended when installing an NSX with a motor mechanism.

(3) Compatible with FDM121.

(4) Compatible with Linyer LGYE vertical busbar.

(5) To be made according to the busbar drawings supplied by Schneider Electric.

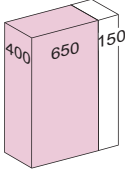
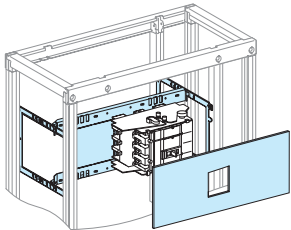

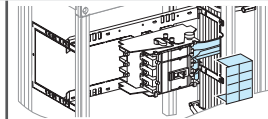

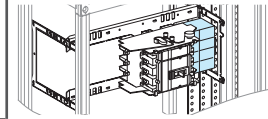

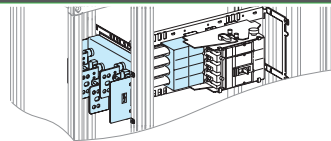
(6) Complete the connection with insulated flexible bars (not supplied).

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Horizontal mounting

All controls - Withdrawable

Circuit breakers

| Mounting | | Horizontal withdrawable | | | |
|---|--|---|-------------------------|--|---------------------|
|  | |  | | | |
| Devices | | All controls NSX / NSX Vigi (ELCB) 100/160/250 (1) | Vigi NSX 100/160/250 | NSX / NSX Vigi (ELCB) 400/630 (1) | Vigi NSX 400/630 |
| Number of devices per row | | 1 | 1 | 1 | 1 |
| No. of vertical modules (1) | | 5 | 5 | 6 | 6 |
| Mounting plates | | LVS03415 | LVS03415 | LVS03462 (2) | LVS03462 (2) |
| Front plates with cut-out | | LVS03618 | LVS03618 | LVS03657 | LVS03657 |
| Collar | | LV429284 | LV429285 | LV432534 | LV429285 |
| Locking kit (3) | | LV429286 | LV429286 | LV429286 (4) | LV429286 (4) |
| Connection | | Upstream from lateral busbars | | | |
| Withdrawable devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
| Linery LGY | | 3P | | 3P | |
| | | 4P | | 4P | |
|  | |  | | | |
| Prefabricated connection for toggle | | LVS04431 | LVS04432 | LVS04461 | LVS04462 |
| Prefabricated connection for rotary handle & motor mechanism | | LVS04427 (5) | LVS04428 (5) | must be made with insulated flexible bars > page G-20 (6). | |
| Connection adapter for plug-in base | | - | - | LV432584 (7) | LV432585 (7) |
| Short terminal shields | | LV429515 | LV429516 | LV432591 | LV432592 |
| Long terminal shields | | - | - | LV432593 (7) | LV432594 (7) |
| Linery BS, LGYE | | | | | |
|  | |  | | | |
| Connection | | must be made with insulated flexible bars > page G-20. | | | |
| Connection adapter for plug-in base | | LV429306 | LV429307 | LV432584 (7) | LV432585 (7) |
| Short terminal shields | | LV429515 | LV429516 | LV432591 | LV432592 |
| Long terminal shields | | LV429517 | LV429518 | LV432593 (7) | LV432594 (7) |
| Connection | | Downstream distribution | | | |
|  | |  | | | |
| Withdrawable devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
| | | 3P | | 3P | |
| | | 4P | | 4P | |
| Front connection | | connection adapter for plug-in base LV429306 | LV429307 | LV432584 | LV432585 |
| | | long terminal shields LV429517 | LV429518 | LV432593 | LV432594 |
| | | short terminal shields LV429515 | LV429516 | LV432591 | LV432592 |
| Connection transfer assembly | | connection adapter for plug-in base LV429306 | LV429307 | LV432584 | LV432585 |
| | | long terminal shields LV429517 | LV429518 | LV432593 | LV432594 |
| | | short terminal shields LV429515 | LV429516 | LV432591 | LV432592 |
| Rear connection | | short terminal shields 2 x LV429515 | 2 x LV429516 | 2 x LV432591 | 2 x LV432592 |
| | | short rear connectors LV429235 | LV429235 | LV432475 | LV432475 |
| | | long rear connectors LV429236 | LV429236 | LV432476 | LV432476 |
| | | connection adapter for plug-in base LV429306 | LV429307 | LV432584 | LV432585 |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(1) Catalog number LVS03460 is recommended when installing an NSX with a motor mechanism.

(3) If mounting several above one another chassis + form 3b + chassis locking kit LV429286, the number of vertical modules must be increased by 2 ; it is necessary to add a 2 modules front plate LVS03802.

(4) Not compatible with NSX630.

(5) Compatible with Linergy LGYE vertical busbar.

(6) To be made according to the busbar drawings supplied by Schneider Electric.

(7) Only for Rotary handle and motor mechanism.

(8) Complete the connection with insulated flexible bars (not supplied).

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

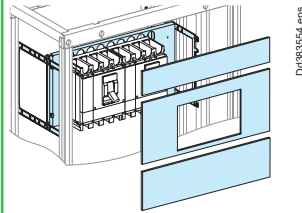
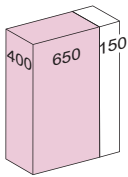
Vertical mounting

Toggle - Fixed



Designed for PowerTag NSX
Circuit breakers

Mounting Vertical fixed



Doc838354.eps

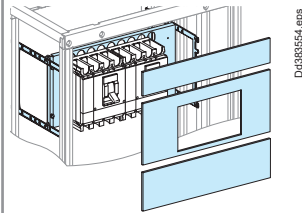
| Devices | Toggle | | | | | | | |
|---|-------------------------------|--------------|--------------|---------------|-------------------------------|--------------|--------------|----------------------------|
| | NSX / NSX Vigi (ELCB) 400 (1) | | Vigi NSX 400 | | NSX / NSX Vigi (ELCB) 630 (1) | | Vigi NSX 630 | |
| Number of devices per row | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| PowerTag NSX compatibility | ↯ | | ↯ | | ↯ | | ↯ | |
| No. of vertical modules | 11 or 13 | | 13 or 15 | | 13 or 15 | | 15 or 17 | |
| Mounting plates | LVS03461 | | LVS03461 | | LVS03461 | | LVS03461 | |
| Front plates [No. of vertical modules] | upstream | LVS03801 [1] | LVS03802 [2] | - | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] | LVS03801 [1] LVS03803 [3] |
| | with cut-out | LVS03275 [9] | LVS03663 [7] | LVS03297 [11] | LVS03666 [9] | LVS03275 [9] | LVS03663 [7] | LVS03297 [11] LVS03666 [9] |
| | downstream | LVS03801 [1] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] | LVS03803 [3] LVS03803 [3] |
| | downstream with PowerTag NSX | LVS03803 [3] | LVS03804 [4] | LVS03804 [4] | LVS03804 [4] | LVS03804 [4] | LVS03805 [5] | LVS03805 [5] LVS03805 [5] |

Connection Upstream from lateral busbars - Linergy LGY, BS, LGYE



| Fixed devices | NSX / NSX Vigi (ELCB) / Vigi NSX 400 | | NSX / NSX Vigi (ELCB) / Vigi NSX 630 | |
|-----------------------|--|----------|--------------------------------------|----------|
| | 3P | 4P | 3P | 4P |
| Front connection | must be made with insulated flexible bars > page G-20. (2) | | | |
| long terminal shields | LV432593 | LV432594 | LV432593 | LV432594 |
| Rear connection | short terminal shields | | LV432591 LV432592 | |
| short rear connectors | LV432475 | | LV432475 | |
| long rear connectors | LV432476 | | LV432476 | |

Connection Downstream distribution



Doc838354.eps

| Fixed devices | NSX / NSX Vigi (ELCB) / Vigi NSX 400 | | NSX / NSX Vigi (ELCB) / Vigi NSX 630 | |
|-----------------------|--------------------------------------|----|--------------------------------------|----|
| | 3P | 4P | 3P | 4P |
| Front connection | long terminal shields | | LV432593 LV432594 | |
| Rear connection (3) | short terminal shields | | LV432591 LV432592 | |
| short rear connectors | LV432475 | | LV432475 | |
| long rear connectors | LV432476 | | LV432476 | |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.
 (2) Connection to be made according to the busbar drawings supplied by Schneider Electric.
 (3) Size reduced to one module downstream.

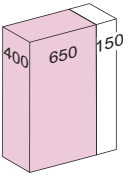
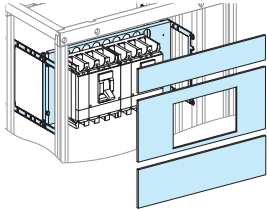


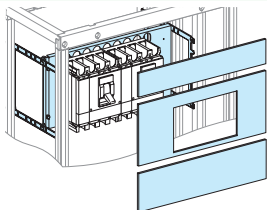


ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

Vertical mounting

Toggle - Plug-in

Circuit breakers

| Mounting | | Vertical plug-in | | | | | | | |
|---|---------------------------------------|---|--------------|---------------|--------------|--------------------------------------|--------------|---------------|--------------|
|  | |  | | | | | | | |
| Devices | | Toggle | | | | | | | |
| | | NSX / NSX Vigi (ELCB) 400 (1) | | Vigi NSX 400 | | NSX / NSX Vigi (ELCB) 630 (1) | | Vigi NSX 630 | |
| Number of devices per row | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| Mounting plates | | LVS03461 | | LVS03461 | | LVS03461 | | LVS03461 | |
| Front plates [No. of vertical modules] | upstream | LVS03801 [1] | LVS03802 [2] | - | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] | LVS03801 [1] | LVS03803 [3] |
| | with cut-out | LVS03275 [9] | LVS03663 [7] | LVS03297 [11] | LVS03666 [9] | LVS03275 [9] | LVS03663 [7] | LVS03297 [11] | LVS03666 [9] |
| | downstream | LVS03801 [1] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] | LVS03803 [3] | LVS03803 [3] |
| Connection | | Upstream from lateral busbars - Linergy LGY, BS, LGE | | | | | | | |
|  | | | | | | | | | |
| Plug-in devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 400 | | | | NSX / NSX Vigi (ELCB) / Vigi NSX 630 | | | |
| | | 3P | | 4P | | 3P | | 4P | |
| Front connection | | must be made with insulated flexible bars > page G-20.(2) | | | | | | | |
| long terminal shields | | LV432593 | | LV432594 | | LV432593 | | LV432594 | |
| short terminal shields | | LV432591 | | LV432592 | | LV432591 | | LV432592 | |
| connection adapter for plug-in base | | LV432584 | | LV432585 | | LV432584 | | LV432585 | |
| Rear connection | short terminal shields | 2 x LV432591 | | 2 x LV432592 | | 2 x LV432591 | | 2 x LV432592 | |
| | short rear connectors | LV432475 | | | | LV432475 | | | |
| | long rear connectors | LV432476 | | | | LV432476 | | | |
| | connection adapter for plug-in base | LV432584 | | LV432585 | | LV432584 | | LV432585 | |
| Connection | | Downstream distribution | | | | | | | |
|  | |  | | | | | | | |
| Plug-in devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 400 | | | | NSX / NSX Vigi (ELCB) / Vigi NSX 630 | | | |
| | | 3P | | 4P | | 3P | | 4P | |
| Front connection | connection adapter for plug-in base | LV432584 | | LV432585 | | LV432584 | | LV432585 | |
| | short terminal shields on device | LV432591 | | LV432592 | | LV432591 | | LV432592 | |
| | long terminal shields on plug-in base | LV432593 | | LV432594 | | LV432593 | | LV432594 | |
| Rear connection (3) | short terminal shields | 2 x LV432591 | | 2 x LV432592 | | 2 x LV432591 | | 2 x LV432592 | |
| | short rear connectors | LV432475 | | | | LV432475 | | | |
| | long rear connectors | LV432476 | | | | LV432476 | | | |
| | connection adapter for plug-in base | LV432584 | | LV432585 | | LV432584 | | LV432585 | |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(3) Size reduced to one module downstream.

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

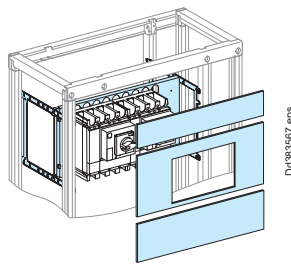
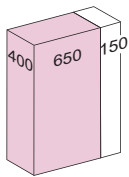
Vertical mounting

Rotary handle, motor mechanism - Fixed



Designed for PowerTag NSX
Circuit breakers

Mounting Vertical fixed



| Devices | | Rotary handle, motor mechanism | | | | | | | |
|---|------------------------------|--------------------------------|--------------|----------------------------|--------------|-------------------------------|--------------|----------------------------|--------------|
| | | NSX / NSX Vigi (ELCB) 400 (1) | | Vigi NSX 400 Rotary handle | | NSX / NSX Vigi (ELCB) 630 (1) | | Vigi NSX 630 Rotary handle | |
| Number of devices per row | | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| PowerTag NSX compatibility | | ⊘ | | ⊘ | | ⊘ | | ⊘ | |
| No. of vertical modules | | 11 or 13 | | 13 or 15 | | 13 or 15 | | 15 or 17 | |
| Mounting plates | | LVS03461 (2) | | LVS03461 | | LVS03461 (2) | | LVS03461 | |
| Front plates [No. of vertical modules] | upstream | LVS03801 [1] | LVS03802 [2] | - | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] | LVS03801 [1] | LVS03803 [3] |
| | with cut-out | LVS03275 [9] | LVS03663 [7] | LVS03297 [11] | LVS03666 [9] | LVS03275 [9] | LVS03663 [7] | LVS03297 [11] | LVS03666 [9] |
| | downstream | LVS03801 [1] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] | LVS03803 [3] | LVS03803 [3] |
| | downstream with PowerTag NSX | LVS03803 [3] | LVS03804 [4] | LVS03804 [4] | LVS03804 [4] | LVS03804 [4] | LVS03805 [5] | LVS03805 [5] | LVS03805 [5] |
| Collar | | - | | LV429285 | | - | | LV429285 | |
| IP40 escutcheons | | - | | LV429316 (3) | | - | | LV429316 (3) | |

Connection Upstream from lateral busbars - Linergy LGY, BS, LGYE



| Fixed devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
|------------------|------------------------|---|--------------|
| | | 3P | 4P |
| Front connection | | must be made with insulated flexible bars > page G-20 (4) | |
| | long terminal shields | LV432593 | LV432594 |
| Rear connection | short terminal shields | LV432591 (5) | LV432592 (5) |
| | short rear connectors | LV432475 | |
| | long rear connectors | LV432476 | |

Connection Downstream distribution



| Fixed devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
|---------------------|------------------------|--|----------|
| | | 3P | 4P |
| Front connection | long terminal shields | LV432593 | LV432594 |
| | short terminal shields | LV432591 | LV432592 |
| Rear connection (4) | short rear connectors | LV432475 | |
| | long rear connectors | LV432476 | |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Catalog number LVS03460 is recommended when installing an NSX with a motor mechanism.

(3) For ammeter, take LV429285 + LV429318 Catalog numbers.

(4) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(5) Size reduced to one module downstream.

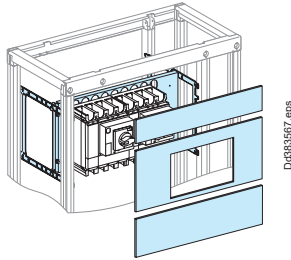
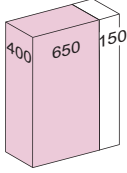
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 400/630

Vertical mounting

Rotary handle, motor mechanism - Plug-in

Circuit breakers

Mounting Vertical plug-in



| Devices | Rotary handle, motor mechanism | | | | | | | | |
|--|--------------------------------|--------------|---------------------------|---------------|-------------------------------|--------------|---------------------------|---------------|--------------|
| | NSX / NSX Vigi (ELCB) 400 (1) | | Vigi NSX400 Rotary handle | | NSX / NSX Vigi (ELCB) 630 (1) | | Vigi NSX630 Rotary handle | | |
| Number of devices per row | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | |
| No. of vertical modules | 11 | | 13 | | 13 | | 15 | | |
| Mounting plates | LVS03461 (2) | | LVS03461 | | LVS03461 (2) | | LVS03461 | | |
| Front plates [No. of vertical modules] | upstream | LVS03801 [1] | LVS03802 [2] | - | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] | LVS03801 [1] | LVS03803 [3] |
| | with cut-out | LVS03275 [9] | LVS03663 [7] | LVS03297 [11] | LVS03666 [9] | LVS03275 [9] | LVS03663 [7] | LVS03297 [11] | LVS03666 [9] |
| | downstream | LVS03801 [1] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] | LVS03803 [3] | LVS03803 [3] |
| Collar | - | | LV429285 | | - | | LV429285 | | |
| IP40 front-panel escutcheons | - | | LV429316 (3) | | - | | LV429316 (3) | | |

Connection Upstream from lateral busbars - Linergy LGY, BS, LGYE



| Plug-in devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
|------------------|-------------------------------------|---|------------------|
| | | 3P | 4P |
| Front connection | connection | must be made with insulated flexible bars > page G-20 (4) | |
| | long terminal shields | LV432593 | LV432594 |
| | short terminal shields | LV432591 | LV432592 |
| | connection adapter for plug-in base | LV432584 | LV432585 |
| Rear connection | short terminal shields | 2 x LV432591 (5) | 2 x LV432592 (5) |
| | short rear connectors | LV432475 | |
| | long rear connectors | LV432476 | |
| | connection adapter for plug-in base | LV432584 | LV432585 |

Connection Downstream distribution



| Plug-in devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
|---------------------|-------------------------------------|--|--------------|
| | | 3P | 4P |
| Front connection | long terminal shields | LV432593 | LV432594 |
| | short terminal shields | LV432591 | LV432592 |
| | connection adapter for plug-in base | LV432584 | LV432585 |
| Rear connection (5) | short terminal shields | 2 x LV432591 | 2 x LV432592 |
| | short rear connectors | LV432475 | |
| | long rear connectors | LV432476 | |
| | connection adapter for plug-in base | LV432584 | LV432585 |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Catalog number LVS03460 is recommended when installing an NSX with a motor mechanism.

(3) For ammeter, take LV429285 + LV429318 Catalog numbers.

(4) Connection to be made according to the busbar drawings supplied by Schneider Electric.

(5) Size reduced to one module downstream.

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

Vertical mounting

All controls - Withdrawable

Circuit breakers

| Mounting | | Vertical withdrawable | | | | | | | |
|--|--------------|---------------------------|--------------|--------------|--------------|-----------------------------------|--------------|--------------|-----------------------------------|
| | | | | | | | | | |
| Devices | | All controls | | | | | | | |
| | | NSX / NSX Vigi (ELCB) (1) | | | | | | | |
| | | 100/160 | 250 | 400 | 400 toggle | 400 rotary handle + motor mechan. | 630 | 630 toggle | 630 rotary handle + motor mechan. |
| Number of devices per row | | 2 | 2 | 2 | 1 | 1 | 2 | 1 | 1 |
| No. of vertical modules | | 8 | 9 | 11 | 11 | 11 | 13 | 13 | 13 |
| Mounting plates | | LVS03421 | LVS03421 | LVS03461 (2) | LVS03461 | LVS03461 (2) | LVS03461 (2) | LVS03461 | LVS03461 (2) |
| Front plates [No. of vertical modules] | upstream | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03801 [1] | LVS03801 [1] | LVS03803 [3] | LVS03802 [2] | LVS03802 [2] |
| | with cut-out | LVS03243 [5] | LVS03243 [5] | LVS03663 [7] | LVS03275 [9] | LVS03275 [9] | LVS03663 [7] | LVS03275 [9] | LVS03275 [9] |
| | downstream | LVS03801 [1] | LVS03802 [2] | LVS03802 [2] | LVS03801 [1] | LVS03801 [1] | LVS03803 [3] | LVS03802 [2] | LVS03802 [2] |
| Collar | | LV429284 (3) | LV429284 (3) | LV432534 (3) | LV432534 | - | LV432534 (3) | LV432534 | - |

| Mounting | | Vertical withdrawable | | | | | | | |
|--|--------------|-------------------------|-------------------------|-------------------------|---------------------------------|---------------|---------------------------------|---------------|---------------------------------|
| | | | | | | | | | |
| Devices | | All controls | | | | | | | |
| | | Vigi NSX | | Vigi NSX 400 | | Vigi NSX 400 | | Vigi NSX 630 | |
| | | 100/160 | 250 | toggle | rotary handle + motor mechanism | toggle | rotary handle + motor mechanism | toggle | rotary handle + motor mechanism |
| Number of devices per row | | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| No. of vertical modules | | 10 | 11 | 13 | 13 | 15 | 15 | 15 | 15 |
| Mounting plates | | LVS03421 | LVS03421 | LVS03461 | LVS03461 | LVS03461 | LVS03461 | LVS03461 | LVS03461 |
| Front plates [No. of vertical modules] | upstream | LVS03802 [2] | LVS03802 [2] | - | LVS03802 [2] | - | LVS03802 [2] | LVS03801 [1] | LVS03803 [3] |
| | with cut-out | LVS03244 [7] | LVS03244 [7] | LVS03297 [11] | LVS03666 [9] | LVS03297 [11] | LVS03666 [9] | LVS03297 [11] | LVS03666 [9] |
| | downstream | LVS03801 [1] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] | LVS03803 [3] |
| Collar | | LV429285 + LV429284 (3) | LV429285 + LV429284 (3) | LV429285 + LV432534 (3) | LV429285 | LV429285 | LV429285 + LV432534 | LV429285 | LV429285 |

| Connection | | Upstream from lateral busbars - Linergy LGY, BS, LGYE | | | |
|----------------------|-------------------------------------|--|--------------|--|--------------|
| Withdrawable devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
| | | 3P | 4P | 3P | 4P |
| Front conn. | connection | must be made with insulated flexible bars > page G-20. | | | |
| | long terminal shields | LV429517 | LV429518 | LV432593 | LV432594 |
| | short terminal shields | LV429515 | LV429516 | LV432591 | LV432592 |
| | connection adapter for plug-in base | LV429306 | LV429307 | LV432584 | LV432585 |
| Rear conn. | short terminal shields | 2 x LV429515 | 2 x LV429516 | 2 x LV432591 | 2 x LV432592 |
| | short rear connectors | LV429235 | LV429235 | LV432475 | LV432475 |
| | long rear connectors | LV429236 | LV429236 | LV432476 | LV432476 |
| | connection adapter for plug-in base | LV429306 | LV429307 | LV432584 | LV432585 |

| Connection | | Downstream distribution | | | |
|----------------------|-------------------------------------|--|--------------|--|--------------|
| | | | | | |
| Withdrawable devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | NSX / NSX Vigi (ELCB) / Vigi NSX 400/630 | |
| | | 3P | 4P | 3P | 4P |
| Front conn. | connection adapter for plug-in base | LV429306 | LV429307 | LV432584 | LV432585 |
| | short on device terminal shields | LV429515 | LV429516 | LV432591 | LV432592 |
| | on plug-in base | LV429517 | LV429518 | LV432593 | LV432594 |
| Rear conn. | short terminal shields | 2 x LV429515 | 2 x LV429516 | 2 x LV432591 | 2 x LV432592 |
| | short rear connectors | LV429235 | LV429235 | LV432475 | LV432475 |
| | long rear connectors | LV429236 | LV429236 | LV432476 | LV432476 |
| | connection adapter for plug-in base | LV429306 | LV429307 | LV432584 | LV432585 |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Catalog number LVS03460 is recommended when installing an NSX with a motor mechanism.

(3) For devices with toggle only.

Version : 14 - 15/12/2023
160E5300

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100 to 630

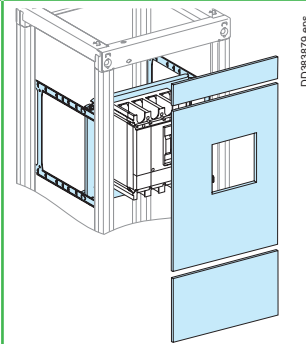
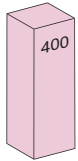
Vertical mounting - W = 400 mm

All controls - Fixed, plug-in



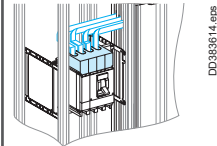
Designed for PowerTag NSX
Circuit breakers

Mounting Device vertical, front connection



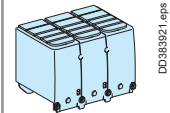
| Devices | Fixed | | Fixed | Fixed / Plug-in (1) | |
|--------------------------------------|---|----------------------------------|----------------------------|--|----------------------------|
| | NSX / NSX Vigi (ELCB) 100/250 (2) Toggle | Rotary handle Motor mechanism | Vigi NSX 100/250 Toggle | NSX / NSX Vigi (ELCB) 400/630 (2) Toggle, Rotary handle Motor mechanism | Vigi NSX 400/630 Toggle |
| Number of devices per row | 1 | 1 | 1 | 1 | 1 |
| PowerTag NSX compatibility | ~) | ~) | ~) | ~) (1) | ~) (1) |
| No. of vertical modules | 9 or 10 | 9 or 10 | 11 or 12 | 12 or 14 | 14 or 16 |
| Mounting plates | LVS03050 | LVS03051 | LVS03050 | LVS03487 | LVS03487 |
| Adapter PrismaSeT G | LVS03596 | LVS03596 | LVS03596 | - | - |
| Front plates with cut-out downstream | LVS03253 [9] | LVS03253 [9] | LVS03293 [11] | LVS03283 [12] | LVS03299 [10] |
| [No. of vertical modules] | - | - | - | - | LVS03814 [4] |
| downstream with PowerTag NSX | LVS03811 [1] | LVS03811 [1] | LVS03811 [1] | LVS03812 [2] | LVS03816 [6] |
| Collar | - | - | - | LV432534 | LV432534 |

Connection Upstream from lateral busbars - Linergy LGY, BS, LGYE



| Devices | Fixed device | | | | Plug-in device | | | |
|------------------|---|----------|----------|----------|--|----------|----------|----------|
| | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | 400/630 | | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | 400/630 | |
| | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| Connection | must be made with insulated flexible bars > page G-20 and according to the drawings supplied by Schneider Electric. | | | | | | | |
| Front connection | connection adapter for plug-in base | - | - | - | LV429306 | LV429307 | LV432584 | LV432585 |
| | short terminal shields | - | - | - | LV429515 | LV429516 | LV432591 | LV432592 |
| | ong terminal shields | LV429517 | LV429518 | LV432593 | LV432594 | LV429517 | LV429518 | LV432593 |

Connection Downstream distribution



| Devices | Fixed device | | | | Plug-in device | | | |
|------------------|--|----------|----------|----------|--|--------------|--------------|--------------|
| | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | 400/630 | | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | | 400/630 | |
| | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| Front connection | short terminal shields | - | - | - | LV429515 | LV429516 | LV432591 | LV432592 |
| | long terminal shields | LV429517 | LV429518 | LV432593 | LV432594 | LV429517 | LV429518 | LV432593 |
| | connection adapter for plug-in base | - | - | - | LV429306 | LV429307 | LV432584 | LV432585 |
| Rear connection | short terminal shields | LV429515 | LV429516 | LV432591 | LV432592 | 2 x LV429515 | 2 x LV429516 | 2 x LV432591 |
| | short rear connectors | LV429235 | LV429235 | LV432475 | LV432475 | LV429235 | LV429235 | LV432475 |
| | long rear connectors | LV429236 | LV429236 | LV432476 | LV432476 | LV429236 | LV429236 | LV432476 |
| | connection adapter for plug-in base | - | - | - | - | LV429306 | LV429307 | LV432584 |

(1) PowerTag NSX is not compatible with plug-in mounting

(2) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100/160/250

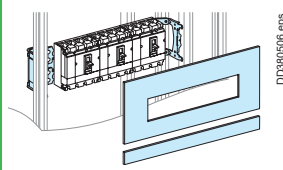
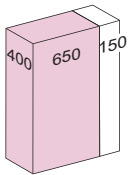
Vertical mounting

Toggle - Fixed



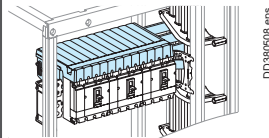
Designed for PowerTag NSX
Circuit breakers

Mounting Vertical fixed



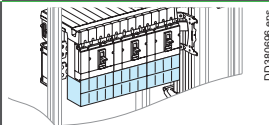
| Devices | Toggle | | | |
|----------------------------|----------------------------------|------------------|------------------------------|------------------|
| | NSX/ NSX Vigi (ELCB) 100/160 (1) | Vigi NSX 100/160 | NSX/ NSX Vigi (ELCB) 250 (1) | Vigi NSX 250 |
| Number of devices per row | 3 x 4P or 4 x 3P | 3 x 4P or 4 x 3P | 3 x 4P or 4 x 3P | 3 x 4P or 4 x 3P |
| PowerTag NSX compatibility | ⊘ | ⊘ | ⊘ | ⊘ |
| No. of vertical modules | 6 or 7 | 8 | 7 or 8 | 9 |
| Mounting plates | LVS03420 | LVS03420 | LVS03420 | LVS03420 |
| Front plates with cut-out | LVS03243 [5] | LVS03241 [7] | LVS03243 [5] | LVS03241 [7] |
| [No. of vertical modules] | downstream | LVS03801 [1] | LVS03802 [2] | LVS03802 [2] |
| | downstream with PowerTag NSX | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] |

Connection Upstream from lateral busbars



| Fixed devices | NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250 | |
|--|---|----------|
| | 3P | 4P |
| Linery FC connection to busbars | | |
| Linery LGY Linery FC distribution blocks (with connection) | LVS04403 | LVS04404 |
| Linery BS, LGYE Linery FC distribution blocks (without connection) (2) | LVS04407 | LVS04408 |
| Other connections to busbars | | |
| Front connection with cable (3) long terminal shields | LV429517 | LV429518 |
| Rear connection with cable | short terminal shields | LV429515 |
| | short rear connectors | LV429235 |
| | long rear connectors | LV429236 |
| Accessories | | |
| Linery FC tooth-caps | LVS04809 | |
| Divisible blanking plate | LVS03249 | |
| Divisible blanking plate + electronic trip unit | LVS03222 | |

Connection Downstream distribution



| Fixed devices | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | |
|--|--|----------|
| | 3P | 4P |
| Front connection long terminal shields | LV429517 | LV429518 |
| Rear connection (4) | short terminal shields | LV429515 |
| | short rear connectors | LV429235 |
| | long rear connectors | LV429236 |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Flexible bars on Linery LGYE to be made according drawings supplied by Schneider Electric.

(3) For the ComPacT NSX100/250, the number of modules indicated is for supply via a Linery FC distribution block.

For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

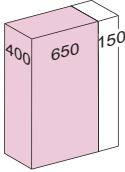
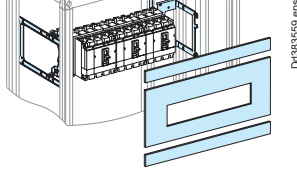
(4) Size reduced to one module downstream.


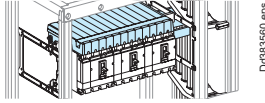
ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100/160/250


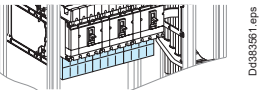
Vertical mounting

Toggle - Plug-in

Circuit breakers

| Mounting | | Vertical plug-in | | | | | | | |
|---|--------------|---|--------------|-----------------------------|--------------|--------------------------------------|--------------|-----------------------------|--------------|
|  | |  | | | | | | | |
| Devices | | Toggle | | | | | | | |
| | | NSX / NSX Vigi (ELCB) 100/160 (1) | | Vigi NSX 100/160 | | NSX / NSX Vigi (ELCB) 250 (1) | | Vigi NSX 250 | |
| Number of devices per row | | 3 x 4P or 4 x 3P | | 3 x 4P or 4 x 3P | | 3 x 4P or 4 x 3P | | 3 x 4P or 4 x 3P | |
| No. of vertical modules | | 9 | 7 | 11 | 9 | 10 | 8 | 12 | 10 |
| Mounting plates | | LVS03421 (2) | LVS03423 (3) | LVS03421 (2) | LVS03423 (3) | LVS03421 (2) | LVS03423 (3) | LVS03421 (2) | LVS03423 (3) |
| Front plates [No. of vertical modules] | upstream | LVS03801 [1] + LVS03802 [2] | LVS03801 [1] | LVS03801 [1] + LVS03802 [2] | LVS03801 [1] | LVS03801 [1] + LVS03802 [2] | LVS03801 [1] | LVS03801 [1] + LVS03802 [2] | LVS03801 [1] |
| | with cut-out | LVS03243 [5] | LVS03243 [5] | LVS03241 [7] | LVS03241 [7] | LVS03243 [5] | LVS03243 [5] | LVS03241 [7] | LVS03241 [7] |
| | downstream | LVS03801 [1] | LVS03801 [1] | LVS03801 [1] | LVS03801 [1] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] |

| Connection | | Upstream from lateral busbars | |
|--|--|--|--------------|
|  | |  | |
| Plug-in devices | | NSX / NSX Vigi (ELCB) / Vigi NSX 100/160/250 | |
| | | 3P | 4P |
| Linery FC connection to busbars | | | |
| Linery LGY | Linery FC distribution blocks (with connection) | LVS04405 (4) | LVS04406 (4) |
| | Connection adapter for plug-in base | LV429306 | LV429307 |
| Linery BS, LGYE | Linery FC distribution blocks (without connection) (5) | LVS04407 | LVS04408 |
| | Connection adapter for plug-in base | LV429306 | LV429307 |
| Connection to lateral busbars with insulated flexible bars | | | |
| Front connection | connection | must be made with insulated flexible bars > page G-20. | |
| | long terminal shields | LV429517 | LV429518 |
| | short terminal shields | LV429515 | LV429516 |
| Rear connection | connection adapter for plug-in base | LV429306 | LV429307 |
| | short terminal shields | 2 x LV429515 | 2 x LV429516 |
| | short rear connectors | LV429235 | |
| | long rear connectors | LV429236 | |
| | connection adapter for plug-in base | LV429306 | LV429307 |
| Accessories | | | |
| Linery FC tooth-caps | | LVS04809 | |
| Divisible blanking plate | | LVS03249 | |
| Divisible blanking plate + electronic trip unit | | LVS03222 | |

| Connection | | Downstream distribution | |
|---|---------------------------------------|---|--------------|
|  | |  | |
| Plug-in devices | | NSX100/160, Vigi NSX100/160/250 | |
| | | 3P | 4P |
| Front connection | connection adapter for plug-in base | LV429306 | LV429307 |
| | short terminal shields on device | LV429515 | LV429516 |
| | long terminal shields on plug-in base | LV429517 | LV429518 |
| Rear connection (6) | short terminal shields | 2 x LV429515 | 2 x LV429516 |
| | short rear connectors | LV429235 | |
| | long rear connectors | LV429236 | |
| | connection adapter for plug-in base | LV429306 | LV429307 |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) Not compatible with Linergy FC distribution block.

(3) Compatible with Linergy FC distribution block.

(4) Catalog number LVS04924 is recommended when installing those references.

(5) Flexible bars on Linergy LGYE to be made according drawings supplied by Schneider Electric.

(6) Size reduced to one module downstream.

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100/160/250

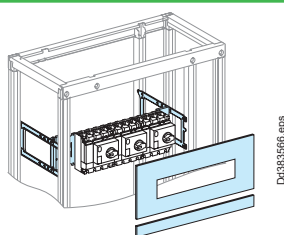
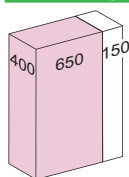


Vertical mounting

Rotary handle, motor mechanism - Fixed

Designed for PowerTag NSX
Circuit breakers

Mounting Vertical fixed



| Devices | Rotary handle, motor mechanism | | | |
|--|---------------------------------------|------------------|-------------------------------|------------------|
| | NSX / NSX Vigi (ELCB) 100/160 (1) LVS | Vigi NSX 100/160 | NSX / NSX Vigi (ELCB) 250 (1) | Vigi NSX 250 |
| Number of devices per row | 3 x 4P or 4 x 3P | 3 x 4P or 4 x 3P | 3 x 4P or 4 x 3P | 3 x 4P or 4 x 3P |
| PowerTag NSX compatibility | ☺ | ☺ | ☺ | ☺ |
| No. of vertical modules (2) | 6 or 7 | 8 or 9 | 7 or 8 | 9 or 10 |
| Mounting plates | LVS03422 | LVS03422 | LVS03422 | LVS03422 |
| Front plates with cut-out | LVS03243 [5] | LVS03244 [7] | LVS03243 [5] | LVS03244 [7] |
| plates downstream | LVS03801 [1] | LVS03801 [1] | LVS03802 [2] | LVS03802 [2] |
| [No. of vert. mod.] downstream with PowerTag NSX | LVS03802 [2] | LVS03802 [2] | LVS03803 [3] | LVS03803 [3] |
| Collar | - | LV429285 | - | LV429285 |
| IP40 front-panel escutcheons | - | LV429316 (3) | - | LV429316 (3) |

Connection Upstream from lateral busbars



| Fixed devices | NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250 | |
|--|---|--------------|
| | 3P | 4P |
| Linery FC connection to busbars | | |
| Linery LGY Linery FC distribution blocks (with connection) | LVS04405 (4) | LVS04406 (4) |
| Linery BS, LGYE Linery FC distribution blocks (without connection) (5) | LVS04407 | LVS04408 |
| Accessories | | |
| Linery FC tooth-caps | LVS04809 | |
| Divisible blanking plate | LVS03249 | |
| Blanking plate fract. + electronic trip unit | LVS03222 | |

Connection Downstream distribution



| Fixed devices | NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250 | |
|--|---|----------|
| | 3P | 4P |
| Front connection long terminal shields | LV429517 | LV429518 |
| Rear connection (6) short terminal shields | LV429515 | LV429516 |
| short rear connectors | LV429235 | |
| long rear connectors | LV429236 | |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) For the ComPacT NSX100/250, the number of modules indicated is for supply via a Linery FC distribution block. For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

(3) For ammeter, take LV429285 + LV429318 Catalog numbers.

(4) Catalog number LVS04924 is recommended when installing those references.

(5) Flexible bars on Linery LGYE to be made according drawings supplied by Schneider Electric.

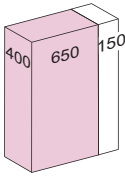
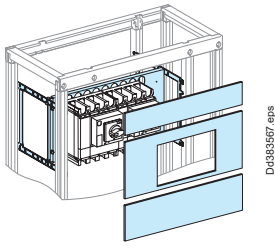


(6) Size reduced to one module downstream.

ComPacT, ComPacT Vigi (ELCB) and VigiComPacT NSX 100/160/250

Vertical mounting

Rotary handle, motor mechanism - Plug-in

Circuit breakers

| Mounting | | Vertical plug-in | | | |
|---|---|---|---------------------|----------------------------------|------------------|
|  | |  | | | |
| Devices | | Rotary handle, motor mechanism - plug-in | | | |
| | | NSX / NSX Vigi (ELCB) (1) 100/160 | Vigi NSX 100/160 | NSX / NSX Vigi (ELCB) (1) 250 | Vigi NSX 250 |
| Number of devices per row | | 3 x 4P or 4 x 3P | 3 x 4P or 4 x 3P | 3 x 4P or 4 x 3P | 3 x 4P or 4 x 3P |
| No. of vertical modules (2) | | 7 | 9 | 8 | 10 |
| Mounting plates | | LVS03421 | LVS03421 | LVS03421 | LVS03421 |
| Front plates [No. of vertical modules] | upstream | LVS03801 [1] | LVS03801 [1] | LVS03801 [1] | LVS03801 [1] |
| | with cut-out | LVS03243 [5] | LVS03244 [7] | LVS03243 [5] | LVS03244 [7] |
| | downstream | LVS03801 [1] | LVS03801 [1] | LVS03802 [2] | LVS03802 [2] |
| Collar | | - | LV429285 | - | LV429285 |
| IP40 escutcheons | | - | LV429316 (3) | - | LV429316 (3) |
| Connection | | Upstream from lateral busbars | | | |
|  | | | | | |
| Plug-in devices | | NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250 3P | | 4P | |
| Linergy FC connection to busbars | | | | | |
| Linergy LGY | Linergy FC distribution blocks (with connection) | LVS04405 (4) | LVS04406 (4) | | |
| | Connection adapter for plug-in base | LV429306 | LV429307 | | |
| Linergy BS, Linyer LGYE | Linergy FC distribution blocks (without connection) (5) | LVS04407 | LVS04408 | | |
| | Connection adapter for plug-in base | LV429306 | LV429307 | | |
| Accessories | | | | | |
| Linergy FC tooth-caps | | LVS04809 | | | |
| Divisible blanking plate | | LVS03249 | | | |
| Blanking plate fract. + electronic trip unit | | LVS03222 | | | |
| Connection | | Downstream distribution | | | |
|  | | | | | |
| Plug-in devices | | NSX / NSX Vigi (ELCB) / Vigi NSX100/160/250 3P | | 4P | |
| Front connection | long terminal shields | LV429517 | LV429518 | | |
| | short terminal shields | LV429515 | LV429516 | | |
| | connection adapter for plug-in base | LV429306 | LV429307 | | |
| Rear connection (6) | short terminal shields | 2 x LV429515 | 2 x LV429516 | | |
| | short rear connectors | LV429235 | | | |
| | long rear connectors | LV429236 | | | |
| | connection adapter for plug-in base | LV429306 | LV429307 | | |

(1) Metering and signaling features (ammeter...) can be added. Mounted on a ComPacT NSX, it has the same size than a ComPacT Vigi NSX. Refer to the corresponding column.

(2) For the ComPacT NSX100/250, the number of modules indicated is for supply via a Linergy FC distribution block.

For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

(3) For ammeter, take LV429285 + LV429318 Catalog numbers.

(4) Catalog number LVS04924 is recommended when installing those references.

(5) Flexible bars on Linergy LGYE to be made according drawings supplied by Schneider Electric.

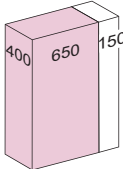
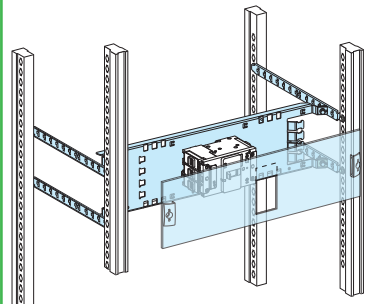
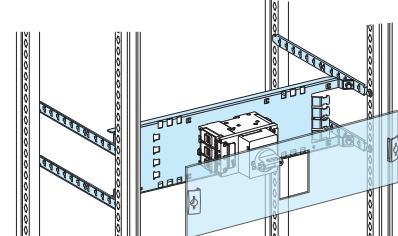

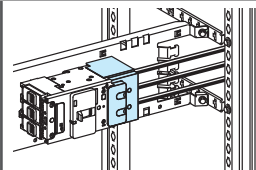
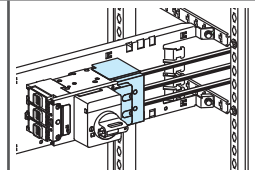

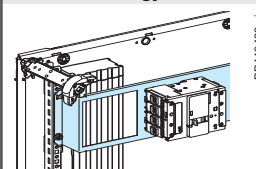
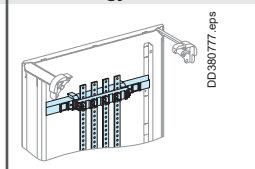

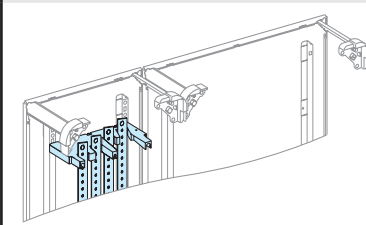
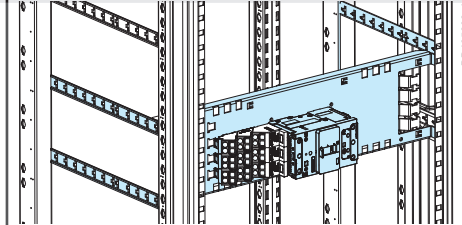
(6) Size reduced to one module downstream.

ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Horizontal mounting

Toggle, rotary handle - Fixed

Circuit breakers

| Mounting | Horizontal fixed | | |
|---|--|-------------------------|---|
|  |  <p style="text-align: right; font-size: small;">DD386146.ai</p> | | |
| |  <p style="text-align: right; font-size: small;">DD386147.ai</p> | | |
| Devices | Toggle | | Direct rotary handle |
| | NSXm | NSXm Vigi (ELCB) | NSXm |
| Number of devices per row | 1 x 3P or 4P | 1 x 3P or 4P | 1 x 3P or 4P |
| No. of vertical modules | 3 | 3 | 3 |
| Mounting plates | LVS03409 | LVS03409 | LVS03409 |
| Front plates with cut-out <small>[No. of vertical modules]</small> | LVS03330 [3] | LVS03330 [3] | LVS03331 [3] |
| Connection | Upstream from lateral Linergy LGY, BS, LGYE busbars | | |
|  |  <p style="text-align: right; font-size: small;">DD386150.ai</p> | |  <p style="text-align: right; font-size: small;">DD386151.ai</p> |
| | | | |
| Devices | Toggle | | Direct rotary handle |
| | NSXm, NSXm Vigi (ELCB) | | NSXm |
| | 3P | 4P | 3P 4P |
| Connection | Connections must be made | | Connections must be made |
| Long terminal shields | LV426912 | LV426913 | LV426912 LV426913 |
| Connection | Downstream distribution | | |
|  | Insulated Linergy BW busbars | | Rear Linergy BS busbars |
| |  <p style="text-align: right; font-size: small;">DD119429.ai</p> | |  <p style="text-align: right; font-size: small;">DD380777.eps</p> |
| Busbars | Linergy BW > page G-14 | | LVS04191 + copper bars > page G-25 |
| Prefabricated connection | LVS04021, LVS04145, LVS04146, LVS04148 | | LVS04030 |
| Connection | Downstream distribution | | |
|  | Linergy BS multi-stage busbars | | Linergy DP distribution block |
| |  <p style="text-align: right; font-size: small;">DD380761.eps</p> | |  <p style="text-align: right; font-size: small;">DD435602.ai</p> |
| Busbars / Distribution block | LVS04192 + copper bars > pages G-10, G-11 | | LVS04038, LVS04039 > page G-15 |
| Prefabricated connection | Connection must be made | | |



ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Vertical mounting

Toggle, rotary handle - Fixed

Circuit breakers

| Mounting | | Vertical fixed | | | |
|--|--|---|---|---|---------------|
| | | | | | |
| Devices | | Toggle NSXm | NSXm Vigi (ELCB) | Direct rotary handle NSXm | |
| Number of devices per row | | 5 x 3P or 4 x 4P | 4 x 3P or 4P | 5 x 3P or 4 x 4P | |
| No. of vertical modules (1) | | 5 | 5 | 5 | |
| Mounting plates | | LVS03410 | LVS03406 | LVS03410 | |
| Front plates [No. of vertical modules] | With cut-out | LVS03205 [5] | LVS03205 [5] | LVS03226 [5] - 3P LVS03227 [5] - 4P | |
| | Upstream | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | |
| | Downstream | LVS03801 [1] | LVS03801 [1] | LVS03801 [1] | |
| Connection | | Upstream from lateral Linergy LGY, BS, LGYE busbars | | | |
| | | | | | |
| Devices | | NSXm, Toggle/Direct rotary handle - with Everlink lug | | NSXm Vigi (ELCB), Toggle/Direct rotary handle - with Everlink lug | |
| Number of poles | | 3P | 4P | 3P | 4P |
| Number of devices per row | | 5 x 3P | 4 x 4P | 4 x 3P | 4 x 4P |
| Linergy FC connection to busbars | | | | | |
| (With connection) | Linergy LGY | LVS04410 | LVS04411 | LVS04416 | LVS04411 |
| | Linergy BS, LGYE | LVS04412 | LVS04413 | LVS04417 | LVS04413 |
| (Without connection) | Linergy BS, LGYE, LGY | LVS04419 | LVS04420 | LVS04418 | LVS04420 |
| Mounting plates | | LVS03416 | LVS03416 | LVS03416 | LVS03416 |
| Front plates [No. of vertical modules] | With cut-out | LVS03205 [5] | LVS03205 [5] | LVS03205 [5] | LVS03205 [5] |
| | Downstream | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] |
| Tooth-caps [No. of tooth-caps] | | LVS04810 [12] | LVS04810 [12] | LVS04810 [12] | LVS04810 [12] |
| Accessories | | | | | |
| | | | | | |
| Connection | | Connections must be made | | Connections must be made | |
| Long terminal shields | | LV426912 | LV426913 | LV426912 | LV426913 |
| Blanking plate | Strip | LVS03220 | LVS03220 | LVS03220 | LVS03220 |
| | Divisible | LVS03221 | LVS03221 | LVS03221 | LVS03221 |
| Connection | Downstream distribution | | | | |
| | Insulated Linergy BW busbars | Rear Linergy BS busbars | Linergy BS Multi-stage busbars in duct | | |
| | | | | | |
| Busbars | Linergy BW | LVS04191 + copper bars > page G-9 | LVS04192 + copper bars > pages G-10, G-11 | | |
| Connection | LVS04030, LVS04145, LVS04146, LVS04147, LVS04148 | LVS04145, LVS04146 (centred device) | Must be made | | |


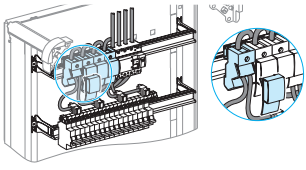
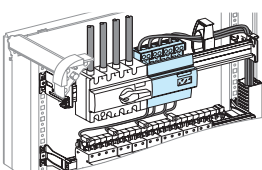
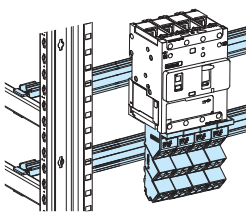
(1) For ComPacT NSXm up to 160, the number of modules indicated is for supply via a Linergy FC distribution block. For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Vertical mounting

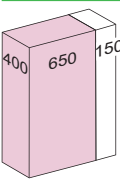
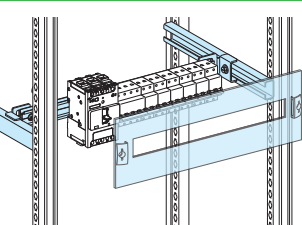
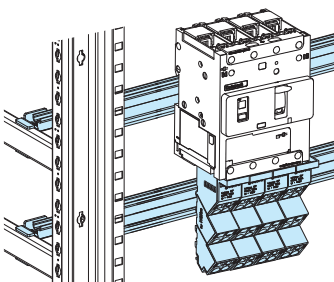
Toggle, rotary handle - Fixed

Circuit breakers

| Connection | Downstream distribution | | | |
|---|---|---|---|--------------------------------|
| | Distribution block Linergy DX1P, 160 A | Distribution block Linergy DX 4P, 125 A/160 A | Distribution block Linergy DP 3P/4P | |
|  |  |  |  | |
| Distribution block | LVS04031 > page G-22 | LVS04045 > page G-22 | LVS04046 > page G-22 | LVS04038, LVS04039 > page G-15 |
| Connection | LVS04149 | LVS04047 | included | |
| Rail | | | | LVS03402 (W650) |

ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Modular devices 160 A

| Mounting | | Modular rail | |
|---|--|---|--|
|  | |  | |
| Devices | | Toggle | |
| | | NSXm | |
| Number of devices per row | | 5 x 3P or 4 x 4P | |
| No. of vertical modules | | 5 (1) | |
| Rail [48 module of 9mm] | | LVS03402 (adjustable) (3) | |
| Modular front plates | | LVS03205 | |
| Blanking plate | | LVS03220 | |
| | | LVS03221 | |
| | | LVS03221 | |
| Connection | |  | |
| Rail | | LVS03402 (W650) | |

(1) With Linergy DP, the number of vertical modules will be 7.

(2) With Linergy DP, the number of vertical modules will be 8.

(3) Can be completed by a rail (cat no. LVS04226) + raiser (cat no. LVS04225) to install modular devices.

Note: Width of NSXm 160 circuit breaker:

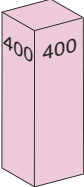
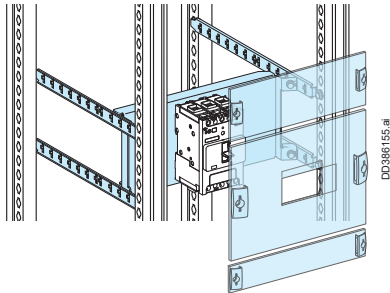
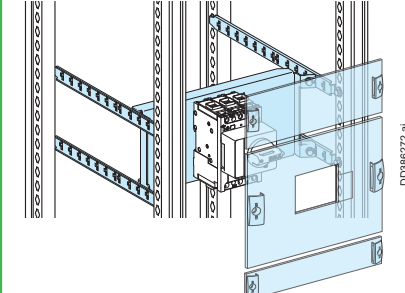
- NSXm 160 - 3P - 9 modules
- NSXm 160 - 4P - 12 modules
- NSXm VIGI 160 - 3P or 4P - 12 modules

ComPacT and ComPacT Vigi (ELCB) NSXm up to 160

Vertical mounting - W = 400 mm

Toggle, rotary handle - Fixed

Circuit breakers

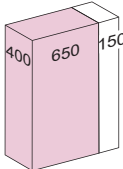
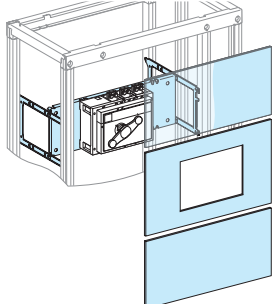
| Mounting | | Vertical Fixed | | |
|---|--|---|------------------|--|
|  | |  | |  |
| | | | | |
| Devices | | Toggle | NSXm Vigi (ELCB) | Direct rotary handle |
| | | NSXm | | NSXm |
| Number of devices per row | | 1 x 3P or 4P | 1 x 3P or 4P | 1 x 3P or 4P |
| No. of vertical modules | | 8 | 8 | 8 |
| Mounting plates | | LVS03405 | LVS03405 | LVS03405 |
| Front plates | | With cut out | LVS03225 [5] | LVS03225 [5] |
| [No. of vertical modules] | | Upstream | LVS03812 [2] | LVS03812 [2] |
| | | Downstream | LVS03811 [1] | LVS03811 [1] |


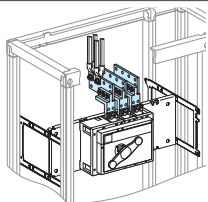
ComPacT INS-INV630b to 1600


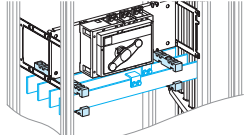
ComPacT INS-INV2000-2500

Vertical fixed mounting

Switch-disconnectors

| Mounting | | Vertical fixed | | | |
|---|--|---|--|-----------------------------|----|
|  | |  | | | |
| Devices | | Fixed device | | INS-INV2000/2500 | |
| | | INS-INV630b/1600 | | 3P | 4P |
| Number of devices per row | | 1 | | 1 | 1 |
| No. of vertical modules | | 14 | | 16 | 16 |
| Mounting plates | | LVS03501 | | LVS03501 | |
| Front plates | | upstream | | LVS03804 [4] | |
| [No. of vertical modules] | | with cut-out | | LVS03713 [6] LVS03714 [6] | |
| | | downstream | | LVS03804 [4] LVS03803 [3] | |
| Characteristics | | Depending on the type of front connection, an INS-INV2000-2500 can be mounted in a 400 mm or 600 mm deep enclosure. For rear connection, a 600 mm deep enclosure is required. | | | |

| Connection | | Upstream on incomer | | | |
|---|--|---|--|------------------|-----------|
|  | |  | | | |
| Fixed device | | INS-INV630b/1600 | | INS-INV2000/2500 | |
| | | 3P | | 3P | 4P |
| Vertical connection adapters | | 31301 (1) | | 33975 (1) | 33976 (1) |
| Cable-lug adapters | | 33644 (1) | | - | - |
| Connection | | - | | must be made | |
| Terminal extension bar support | | - | | LVS04694 | LVS04694 |

| Connection | | Downstream distribution via Linergy LGY, LGYE, or BS busbars | | | |
|---|--|---|--|------------------|----|
|  | |  | | | |
| Fixed device | | INS-INV630b/1600 | | INS-INV2000/2500 | |
| | | 3P | | 3P | 4P |
| Connection LGY | | LVS04481 | | - | |
| Connection BS, LGYE | | must be made (3) | | must be made (3) | |
| Cover for busbars connection | | LVS04926 (2) | | LVS04926 (2) | |
| Free support | | - | | 2 x LVS04662 | |

(1) Vertical connection adapters and cable-lug adapters are not compatible with input voltage ≥ 500 V.
 (2) Partitioning of devices must be made.
 (3) Connection to be made according to the busbar drawings supplied by Schneider Electric.
 Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6.

ComPacT INS-INV250 to 630
Horizontal / Vertical fixed mounting



Designed for PowerTag NSX
Switch-disconnectors

| Mounting | | Horizontal fixed | | Vertical fixed | | |
|--|------------------------|-------------------------------------|-----------------------|-------------------|-----------------------|-----------------------|
| | | | | | | |
| Devices | | Fixed device | | | | |
| | | INS-INV250 | INS-INV320/630 | INS-INV250 | INS-INV320/400 | INS-INV500/630 |
| Number of devices per row | | 1 | 1 | 1 | 2/3 | 1 |
| PowerTag NSX compatibility | | ↯ | ↯ | ↯ | ↯ | ↯ |
| No. of vertical modules | | 4 | 5 | 7 or 8 (1) | 10 or 12 | 11 or 13 |
| Mounting plates | | LVS03412 | LVS03452 | LVS03420 | LVS03461 | LVS03461 |
| Front plates upstream | | - | - | LVS03801 [1] | - | LVS03801 [1] |
| [No. of vertical modules] with cut-out | | LVS03617 [4] | LVS03658 [5] | LVS03248 [5] | LVS03620 [5] | LVS03274 [10] |
| downstream | | - | - | LVS03801 [1] | - | - |
| downstream with PowerTag NSX | | - | - | LVS03802 [2] | LVS03802 [2] | LVS03802 [2] |
| Connection | | Upstream via lateral busbars | | | | |
| Fixed device | | INS-INV250 | INS-INV320/630 | INS-INV250 | INS-INV320/630 | |
| | | 3P 4P | | | | |
| Linery LGY | | | | | | |
| Prefabricated connection | | LVS04427 (2) | LVS04428 (2) | must be made (3) | - | must be made (3) |
| Distribution block Linery FC | | - | - | LVS04404 | - | |
| Long terminal shields | | - | LV432594 | - | LV432594 | |
| Linery BS, LGYE | | | | | | |
| Connection | | must be made (3) | | - | | |
| Linery FC distribution blocks (without connection) | | - | | LVS04408 | must be made | |
| Long terminal shields | | LV429518 | LV432594 | - | LV432594 | |
| Accessories | | | | | | |
| Linery FC tooth-caps | | - | | LVS04809 | | |
| Connection | | Downstream distribution | | | | |
| | | | | | | |
| Fixed device | | INS-INV250 | INS-INV320/630 | INS-INV250 | INS-INV320/630 | |
| Front connection | long terminal shields | LV429518 | LV432594 | LV429518 | LV432594 | |
| Rear connection (4) | short terminal shields | LV432516 | LV432592 | LV432516 | LV432592 | |
| | short rear connectors | LV429235 | LV432475 | LV429235 | LV432475 | |
| | long rear connectors | LV429236 | LV432476 | LV429236 | LV432476 | |

(1) For the ComPacT INS-INV250, the number of modules indicated is for supply via a Linery FC distribution block.

For supply via cables, two additional modules are required; add an upstream plain front plate (LVS03802).

(2) Compatible with Linery LGYE vertical busbar.

(3) To be made according to the busbar drawings supplied by Schneider Electric.

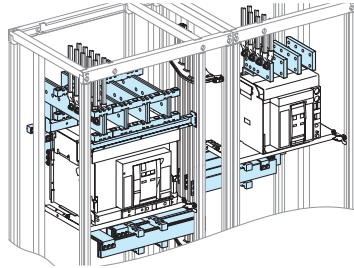
(4) For rear connection, size reduced one module; a plain downstream front plate (LVS03801) is not needed.

Source-changeover

Possible combinations ComPacT NSX100/630, NS630b/1600, MasterPact MTZ1 06/16, MTZ2 08/32

Source-changeover

Manual source-changeover

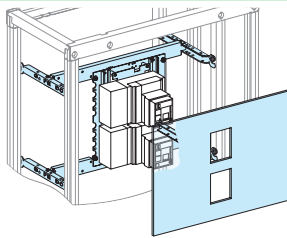


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| Type of device | Type of interlocking | | | | | | | |
|----------------------------|----------------------|--------|---------|---------------|---------------|--|--|---|
| | Complete assembly | Toggle | Keylock | Rotary handle | On base plate | Cable-type with 2 devices side-by-side (2) | Cable-type with 3 devices side-by-side (2) | Cable-type with 2 devices one above another |
| INS250 (rating 100 to 250) | | | | | | | | |
| INV100 to INV250 (1) | | | | | | | | |
| INS320 to INS630 | | | | | | | | |
| INV320 to INV630 (1) | | | | | | | | |
| NSX100 to NSX250 | | | | | | | | |
| NSX400 to NSX630 | | | | | | | | |
| NS630b to NS1600 | | | | | | | | |
| NT06 to 16 | | | | | | | | |
| NW08 to 32 | | | | | | | | |

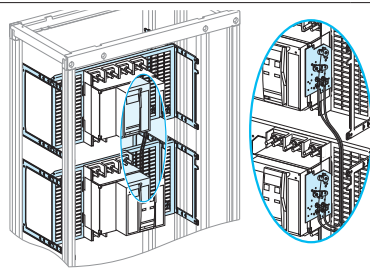


Remote-operated source-changeover systems - Mechanical interlocking system



DD383809.eps

| Devices "S1" | Combination of ComPacT NSX "S1" and "S2" devices | | | | |
|----------------------------|--|--------|--------|--------|--------|
| | NSX100 | NSX160 | NSX250 | NSX400 | NSX630 |
| NSX100 Rating 12.5...100 A | | | | | |
| NSX160 Rating 12.5...160 A | | | | | |
| NSX250 Rating 12.5...250 A | | | | | |
| NSX400 Rating 160...400 A | | | | | |
| NSX630 Rating 250...630 A | | | | | |



D0963576.ai

| Devices "S1" | Combination of "S1" and "S2" devices, Interlocking via cables | | |
|------------------|---|------------|------------|
| | NS630b to NS1600 | NT06 to 16 | NW08 to 40 |
| NS630b to NS1600 | | | |
| NT06 to 16 | | | |
| NW08 to 40 | | | |

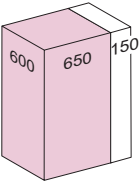
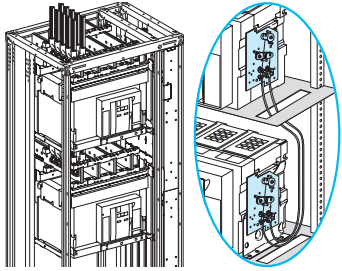


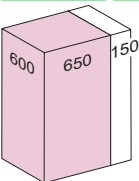
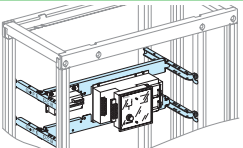
(1) Visible break function.
 (2) In 2 or 3 cubicles.

Possible combinations.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, front connection S1 device identical to S2 device

Source-changeover

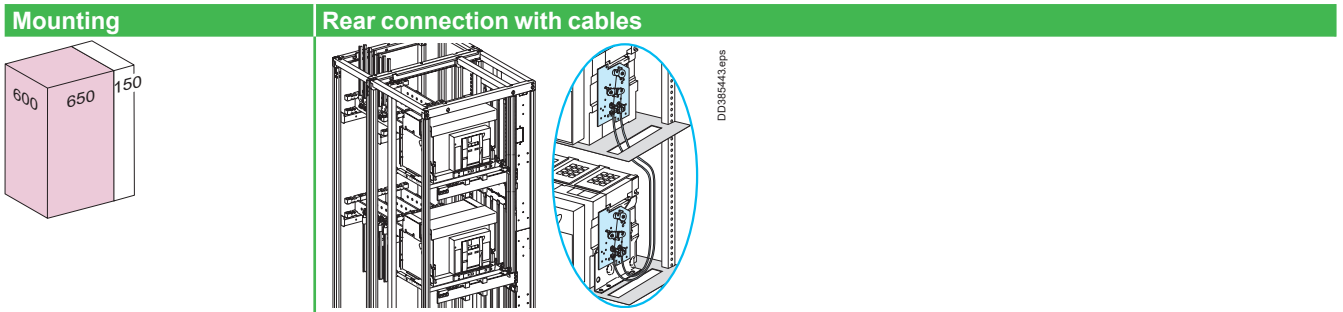
| Mounting | | Front connection with cables | | | |
|---|--------------|--|--------------|---------------------|---------------|
|  | |  | | | |
| Devices | | Fixed device | | Withdrawable device | |
| Number of devices per row | | 2 | 2 | 2 | 2 |
| Number of vertical modules | | 31 | 34 | 33 | 36 |
| Mounting plates | | LVS03500 | LVS03500 | LVS03500 | LVS03500 |
| S1 device | | | | | |
| Front plates [No. of vertical modules] | upstream | NW08/16 | NW20/32 | NW08/16 | NW20/32 |
| | with cut-out | LVS03804 [4] | LVS03805 [5] | LVS03804 [4] | LVS03805 [5] |
| | downstream | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| S2 device | | | | | |
| Front plates [No. of vertical modules] | upstream | NW08/16 | NW20/32 | NW08/16 | NW20/32 |
| | with cut-out | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| | downstream | LVS03804 [4] | LVS03805 [5] | LVS03804 [4] | LVS03805 [5] |
| Connection | | | | | |
|  | | | | | |
| Devices | | Fixed device | | Withdrawable device | |
| S1 device | | | | | |
| Upstream connection | | NW08/16 | NW20/32 | NW08/16 | NW20/32 |
| Connection | | Vertical rear connections supplied with the device must be made (1) | | | |
| S2 device | | | | | |
| Downstream connection | | NW08/16 | NW20/32 | NW06/10 | NW20/32 |
| Connection | | Vertical rear connections supplied with the device must be made (1) | | | |
| Distribution | | Linergy LGY, LGYE or BS busbars | | | |
|  | | Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6. | | | |
| S1 device | | | | | |
| Upstream connection | | Front connections supplied with the device must be made (1) | | | |
| S2 device | | | | | |
| Downstream connection | | Front connections supplied with the device must be made (1) | | | |
| Mounting | | Controller outside the device zone | | | |
|  | |  | | | |
| Devices | | UA or BA controller | | | |
| Number of devices per row | | 1 | | | |
| Number of vertical modules | | 4 | | | |
| Mounting plates | | LVS03417 | | | |
| Front plates with cut-out [No. of vertical mod.] | | LVS03671 [4] | | | |
| Characteristics | | When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes. | | | |

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ2 08/32, rear connection S1 device identical to S2 device

Source-changeover



| Devices | | Fixed device | | Withdrawable device | |
|--|--|--------------|--------------|---------------------|---------------|
| Number of devices per row | | 2 | 2 | 2 | 2 |
| Number of vertical modules | | 23 | 24 | 25 | 26 |
| Mounting plates | | LVS03500 | LVS03500 | LVS03500 | LVS03500 |
| S1 device | | | | | |
| Front plates [No. of vertical modules] | | NW08/16 | NW20/32 | NW08/16 | NW20/32 |
| upstream | | - | - | - | - |
| with cut-out | | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| downstream | | LVS03805 [5] | LVS03806 [6] | LVS03805 [5] | LVS03806 [6] |
| S2 device | | | | | |
| Front plates [No. of vertical modules] | | NW08/16 | NW20/32 | NW08/16 | NW20/32 |
| upstream | | - | - | - | - |
| with cut-out | | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| downstream | | - | - | - | - |

| Connection | | Fixed device | | Withdrawable device | |
|-----------------------|--|--|---------|---------------------|---------|
| S1 device | | NW08/16 | NW20/32 | NW08/16 | NW20/32 |
| Upstream connection | | Vertical rear connections supplied with the device | | | |
| Connection | | must be made (1) | | | |
| S2 device | | | | | |
| Downstream connection | | NW08/16 | NW20/32 | NW06/10 | NW20/32 |
| Connection | | Vertical rear connections supplied with the device | | | |
| Connection | | must be made (1) | | | |

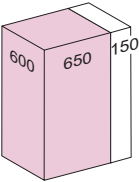
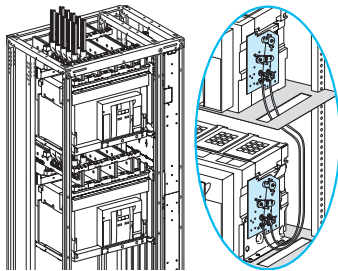


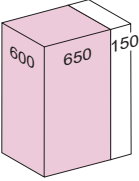
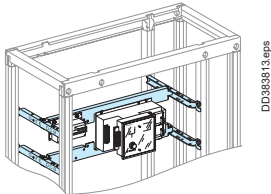
| Distribution | | Linergy LGY, LGYE or BS busbars | | | |
|-----------------------|--|---|--|--|--|
| | | Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6. | | | |
| S1 device | | | | | |
| Upstream connection | | Front connections supplied with the device | | | |
| Connection | | must be made (1) | | | |
| S2 device | | | | | |
| Downstream connection | | Front connections supplied with the device | | | |
| Connection | | must be made (1) | | | |

| Mounting | | Controller outside the device zone | |
|--|--|--|--|
| | | | |
| Devices | | UA or BA controller | |
| Number of devices per row | | 1 | |
| Number of vertical modules | | 4 | |
| Mounting plates | | LVS03417 | |
| Front plates [No. of vertical mod.] with cut-out | | LVS03671 [4] | |
| Characteristics | | When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes. | |

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover
 MasterPact MTZ2 08/32, front connection S1 device different to S2 device

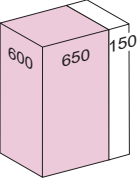
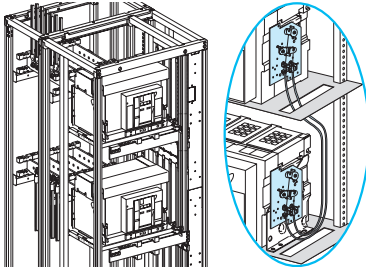
Source-changeover

| Mounting | | Front connection with cables | | | |
|---|--------------|--|--------------|----------------------------|---------------|
|  | |  | | | |
| Devices | | Fixed device | | Withdrawable device | |
| Number of devices per row | | 2 | 2 | 2 | 2 |
| Number of vertical modules | | 33 | 33 | 35 | 35 |
| Mounting plates | | LVS03500 | LVS03500 | LVS03500 | LVS03500 |
| | | S1 device | | | |
| | | NW08/16 | NW20/32 | NW08/16 | NW20/32 |
| Front plates [No. of vertical modules] | upstream | LVS03804 [4] | LVS03805 [5] | LVS03804 [4] | LVS03805 [5] |
| | with cut-out | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| | downstream | LVS03806 [6] | LVS03806 [6] | LVS03806 [6] | LVS03806 [6] |
| | | S2 device | | | |
| | | NW20/32 | NW08/16 | NW20/32 | NW08/16 |
| Front plates [No. of vertical modules] | upstream | - | - | - | - |
| | with cut-out | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| | downstream | LVS03805 [5] | LVS03804 [4] | LVS03805 [5] | LVS03804 [4] |
| Connection | | | | | |
|  | | | | | |
| Devices | | Fixed device | | Withdrawable device | |
| | | S1 device | | S2 device | |
| Upstream connection | | NW08/16 | NW20/32 | NW08/16 | NW20/32 |
| Connection | | Vertical rear connections supplied with the device must be made (1) | | | |
| Downstream connection | | NW08/16 | NW20/32 | NWT06/10 | NW20/32 |
| Connection | | Vertical rear connections supplied with the device must be made (1) | | | |
| Distribution | | Linergy LGY, LGYE or BS busbars | | | |
|  | | Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6. | | | |
| | | S1 device | | | |
| Upstream connection | | Front connections supplied with the device must be made (1) | | | |
| | | S2 device | | | |
| Downstream connection | | Front connections supplied with the device must be made (1) | | | |
| Connection | | | | | |
| Mounting | | Controller outside the device zone | | | |
|  | |  | | | |
| Devices | | UA or BA controller | | | |
| Number of devices per row | | 1 | | | |
| Number of vertical modules | | 4 | | | |
| Mounting plates | | LVS03417 | | | |
| Front plates with cut-out [No. of vertical mod.] | | LVS03671 [4] | | | |
| Characteristics | | When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes. | | | |


(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.


Manual or remote-operated or automatic source-changeover
MasterPact MTZ2 08/32, rear connection S1 device different to S2 device

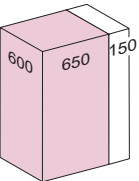
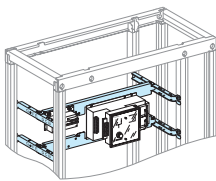
Source-changeover

| Mounting | | Rear connection with cables | | | |
|---|--|---|--|--|--|
|  | |  | | | |

| Devices | | Fixed device | | Withdrawable device | |
|--|--|--------------|--------------|---------------------|---------------|
| Number of devices per row | | 2 | 2 | 2 | 2 |
| Number of vertical modules | | 24 | 24 | 26 | 26 |
| Mounting plates | | LVS03500 | LVS03500 | LVS03500 | LVS03500 |
| S1 device | | | | | |
| Front plates [No. of vertical modules] | | MTZ2 08/16 | MTZ2 20/32 | MTZ2 08/16 | MTZ2 20/32 |
| upstream | | - | - | - | - |
| with cut-out | | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| downstream | | LVS03806 [6] | LVS03806 [6] | LVS03806 [6] | LVS03806 [6] |
| S2 device | | | | | |
| Front plates [No. of vertical modules] | | MTZ2 08/16 | MTZ2 20/32 | MTZ2 08/16 | MTZ2 20/32 |
| upstream | | - | - | - | - |
| with cut-out | | LVS03711 [9] | LVS03711 [9] | LVS03710 [10] | LVS03710 [10] |
| downstream | | - | - | - | - |

| Connection | | | | | |
|---|--|---|------------|---------------------|------------|
|  | | | | | |
| Devices | | Fixed device | | Withdrawable device | |
| S1 device | | | | | |
| Upstream connection | | MTZ2 08/16 | MTZ2 20/32 | MTZ2 08/16 | MTZ2 20/32 |
| Connection | | Vertical rear connections supplied with the device must be made (1) | | | |
| S2 device | | | | | |
| Downstream connection | | MTZ2 08/16 | MTZ2 20/32 | MTZ2 06/10 | MTZ2 20/32 |
| Connection | | Vertical rear connections supplied with the device must be made (1) | | | |

| Distribution | | Linergy LGY, LGYE or BS busbars | | | |
|---|--|---|--|--|--|
|  | | Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6. | | | |
| S1 device | | | | | |
| Upstream connection | | Front connections supplied with the device | | | |
| Connection | | must be made (1) | | | |
| S2 device | | | | | |
| Downstream connection | | Front connections supplied with the device | | | |
| Connection | | must be made (1) | | | |

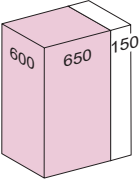
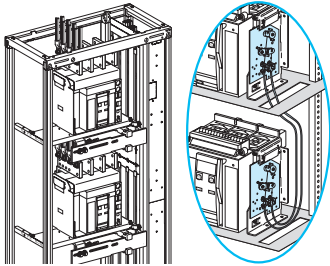


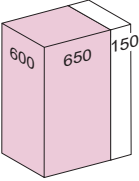
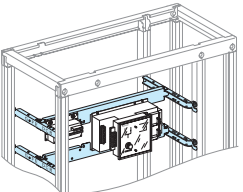
| Mounting | | Controller outside the device zone | | | |
|---|--|--|--|--|--|
|  | |  | | | |
| Devices | | UA or BA controller | | | |
| Number of devices per row | | 1 | | | |
| Number of vertical modules | | 4 | | | |
| Mounting plates | | LVS03417 | | | |
| Front plates [No. of vertical mod.] with cut-out | | LVS03671 [4] | | | |
| Characteristics | | When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes. | | | |

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

Manual or remote-operated or automatic source-changeover

MasterPact MTZ1 06/16, front connection S1 device identical to S2 device

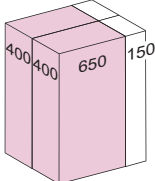
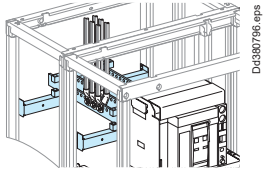


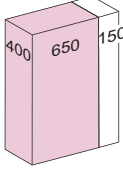
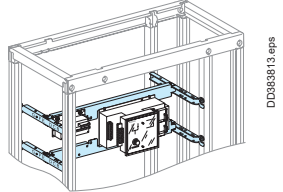
Source-changeover

| Mounting | | Front connection with cables | | | | | | | |
|---|--------------|--|--|-------------------|--|----------------------------|--|-------------------|--|
|  | |  | | | | | | | |
| Devices | | Fixed device | | | | Withdrawable device | | | |
| Number of devices per row | | 2 | | 2 | | 2 | | 2 | |
| Number of vertical modules | | 24 | | 28 | | 26 | | 30 | |
| Mounting plates | | LVS03484 | | LVS03484 | | LVS03483 | | LVS03483 | |
| | | S1 device | | | | | | | |
| | | MTZ1 06/10 | | MTZ1 12/16 | | MTZ1 06/10 | | MTZ1 12/16 | |
| Front plates [No. of vertical modules] | upstream | LVS03802 [2] | | LVS03804 [4] | | LVS03802 [2] | | LVS03804 [4] | |
| | with cut-out | LVS03692 [7] | | LVS03692 [7] | | LVS03691 [8] | | LVS03691 [8] | |
| | downstream | LVS03803 [3] | | LVS03803 [3] | | LVS03803 [3] | | LVS03803 [3] | |
| | | S2 device | | | | | | | |
| | | MTZ1 06/10 | | MTZ1 12/16 | | MTZ1 06/10 | | MTZ1 12/16 | |
| Front plates [No. of vertical modules] | upstream | LVS03803 [3] | | LVS03803 [3] | | LVS03803 [3] | | LVS03803 [3] | |
| | with cut-out | LVS03692 [7] | | LVS03692 [7] | | LVS03691 [8] | | LVS03691 [8] | |
| | downstream | LVS03802 [2] | | LVS03804 [4] | | LVS03802 [2] | | LVS03804 [4] | |
| Connection | | | | | | | | | |
|  | | | | | | | | | |
| Devices | | Fixed device | | | | Withdrawable device | | | |
| | | MTZ1 06/10 | | MTZ1 12/16 | | MTZ1 06/10 | | MTZ1 12/16 | |
| | | 3P 4P | | 3P 4P | | 3P 4P | | 3P 4P | |
| S1 device | | Upstream connection Front connections supplied with the device | | | | | | | |
| Vertical connection adapters | | 33642 33643 | | 33642 33643 | | 33642 33643 | | 33642 33643 | |
| S2 device | | Downstream connection Front connections supplied with the device | | | | | | | |
| Vertical connection adapters | | 33642 33643 | | 33642 33643 | | 33642 33643 | | 33642 33643 | |
| Distribution | | Linergy LGY, LGYE or BS busbars | | | | | | | |
|  | | Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6. | | | | | | | |
| S1 device | | Upstream connection Front connections supplied with the device | | | | | | | |
| Connection | | must be made | | | | | | | |
| S2 device | | Downstream connection Front connections supplied with the device | | | | | | | |
| Connection | | must be made | | | | | | | |
| Mounting | | Outside the device zone | | | | | | | |
|  | |  | | | | | | | |
| Devices | | UA or BA controller | | | | | | | |
| Number of devices per row | | 1 | | | | | | | |
| Number of vertical modules | | 4 | | | | | | | |
| Mounting plates | | LVS03417 | | | | | | | |
| Front plates [No. of vertical mod.] | with cut-out | LVS03671 [4] | | | | | | | |
| | | | | | | | | | |
| Characteristics | | When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes. | | | | | | | |

Manual or remote-operated or automatic source-changeover

MasterPact MTZ1 06/16, rear connection S1 device identical to S2 device

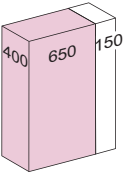
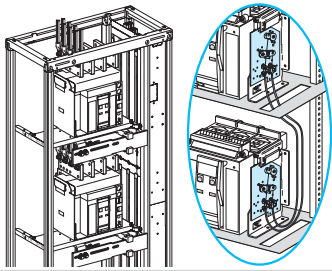


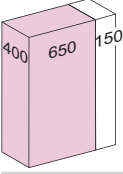
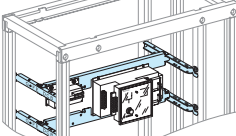
Source-changeover

| Mounting | | Rear connection with cables | |
|---|--------------|--|----------------------------|
|  | |  | |
| Devices | | Fixed device | Withdrawable device |
| Number of devices per row | | 2 | 2 |
| Number of vertical modules | | 22 | 22 |
| Mounting plates | | LVS03484 | LVS03483 |
| | | S1 device | |
| | | MTZ1 06/16 | MTZ1 06/16 |
| Front plates [No. of vertical modules] | upstream | LVS03801 [1] | - |
| | with cut-out | LVS03692 [7] | LVS03691 [8] |
| | downstream | LVS03803 [3] | LVS03803 [3] |
| | | S2 device | |
| | | MTZ1 06/16 | MTZ1 06/16 |
| Front plates [No. of vertical modules] | upstream | LVS03803 [3] | LVS03803 [3] |
| | with cut-out | LVS03692 [7] | LVS03691 [8] |
| | downstream | LVS03801 [1] | - |
| Connection | | | |
|  | | | |
| Devices | | Fixed device | Withdrawable device |
| | | MTZ1 06/16 | MTZ1 06/16 |
| | | S1 device | |
| Upstream connection | | Vertical rear connections supplied with the device | |
| Connection | | must be made | |
| | | S2 device | |
| Downstream connection | | Vertical rear connections supplied with the device | |
| Connection | | must be made | |
| Distribution | | Linergy LGY, LGYE or BS busbars | |
|  | | Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6. | |
| | | S1 device | |
| Upstream connection | | Front connections supplied with the device | |
| Connection | | must be made | |
| | | S2 device | |
| Downstream connection | | Front connections supplied with the device | |
| Connection | | must be made | |
| Mounting | | Controller outside the device zone | |
|  | |  | |
| Devices | | UA or BA controller | |
| Number of devices per row | | 1 | |
| Number of vertical modules | | 4 | |
| Mounting plates | | LVS03417 | |
| Front plates [No. of vertical mod.] | | LVS03671 [4] | |
| Characteristics | | When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes. | |

Manual or remote-operated or automatic source-changeover

MasterPact MTZ1 06/16, front connection S1 device different to S2 device

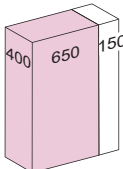
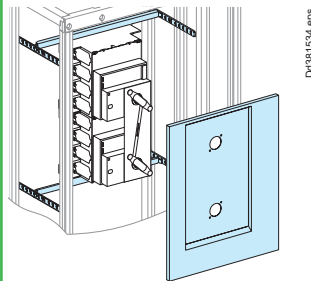

Source-changeover

| Mounting | | Front connection with cables | | | | | | | |
|---|--------------|--|-------|-------------------|-------|----------------------------|-------|-------------------|-------|
|  | |  | | | | | | | |
| Devices | | Fixed device | | | | Withdrawable device | | | |
| Number of devices per row | | 2 | | 2 | | 2 | | 2 | |
| Number of vertical modules | | 26 | | 26 | | 28 | | 28 | |
| Mounting plates | | LVS03484 | | LVS03484 | | LVS03483 | | LVS03483 | |
| | | S1 device | | | | | | | |
| | | MTZ1 12/16 | | MTZ1 06/10 | | MTZ1 12/16 | | MTZ1 06/10 | |
| Front plates [No. of vertical modules] | upstream | LVS03804 [4] | | LVS03802 [2] | | LVS03804 [4] | | LVS03802 [2] | |
| | with cut-out | LVS03692 [7] | | LVS03692 [7] | | LVS03691 [8] | | LVS03691 [8] | |
| | | S2 device | | | | | | | |
| | | MTZ1 06/10 | | MTZ1 12/16 | | MTZ1 06/10 | | MTZ1 12/16 | |
| Front plates [No. of vertical modules] | upstream | LVS03803 [3] | | LVS03803 [3] | | LVS03803 [3] | | LVS03803 [3] | |
| | with cut-out | LVS03692 [7] | | LVS03692 [7] | | LVS03691 [8] | | LVS03691 [8] | |
| | downstream | LVS03802 [2] | | LVS03804 [4] | | LVS03802 [2] | | LVS03804 [4] | |
| Connection | | | | | | | | | |
|  | | | | | | | | | |
| Devices | | Fixed device | | | | Withdrawable device | | | |
| | | MTZ1 06/10 | | MTZ1 12/16 | | MTZ1 06/10 | | MTZ1 12/16 | |
| | | 3P | 4P | 3P | 4P | 3P | 4P | 3P | 4P |
| S1 device | | | | | | | | | |
| Upstream connection | | Front connections supplied with the device | | | | | | | |
| Vertical connection adapters | | 33642 | 33643 | 33642 | 33643 | 33642 | 33643 | 33642 | 33643 |
| S2 device | | | | | | | | | |
| Downstream connection | | Front connections supplied with the device | | | | | | | |
| Vertical connection adapters | | 33642 | 33643 | 33642 | 33643 | 33642 | 33643 | 33642 | 33643 |
| Distribution | | Linergy LGY, LGYE or BS busbars | | | | | | | |
|  | | Selection of busbars: Linergy LGY > page G-4, Linergy LGYE > page G-5, Linergy BS > page G-6. | | | | | | | |
| S1 device | | | | | | | | | |
| Upstream connection | | Front connections supplied with the device | | | | | | | |
| Connection | | must be made | | | | | | | |
| S2 device | | | | | | | | | |
| Downstream connection | | Front connections supplied with the device | | | | | | | |
| Connection | | must be made | | | | | | | |
| Mounting | | Controller outside the device zone | | | | | | | |
|  | |  | | | | | | | |
| Devices | | UA or BA controller | | | | | | | |
| Number of devices per row | | 1 | | | | | | | |
| Number of vertical modules | | 4 | | | | | | | |
| Mounting plates | | LVS03417 | | | | | | | |
| Front plates [No. of vertical mod.] | | with cut-out LVS03671 [4] | | | | | | | |
| Characteristics | | When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes. | | | | | | | |

Manual or remote-operated or automatic source-changeover

ComPacT NS630b to 1000

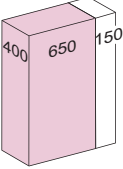
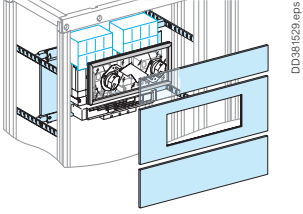
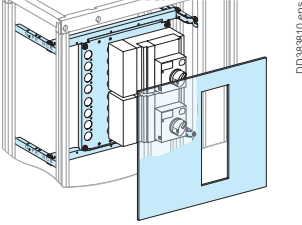

Source-changeover

| Mounting | | Horizontal | |
|---|--|--|-----------|
|  | |  | |
| Devices | | NS630b/1000 | |
| | | 3P | 4P |
| Number of devices per row | | 2 | |
| Number of vertical modules | | 13 | |
| Mounting plates | | LVS03491 | |
| Front plates | | upstream - | |
| [No. of vertical modules] | | with cut-out LVS03695 [13] | |
| | | downstream - | |
| Mechanical interlock | | 33890 | 33890 |
| Characteristics | | Interlocking of direct rotary handles. The devices are equipped with a direct rotary handle. | |
| Connection | | Downstream distribution | |
|  | | | |
| Type of connected devices | | ComPacT NS630b/1000 | |
| | | 3P | 4P |
| Front connection long terminal shields | | 33628 x 2 | 33629 x 2 |



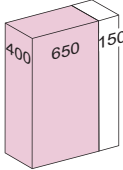
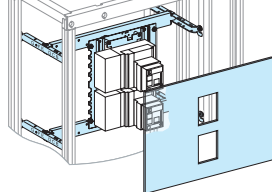
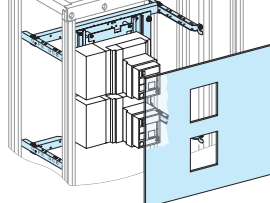
Manual source-changeover
ComPacT NSX100/630


Source-changeover

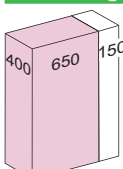
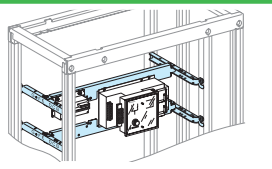
| Mounting | | Vertical | | Horizontal | |
|--|--|--|----------|--|----------|
|  | |  | |  | |
| Devices | | NSX100/250 | | NSX400/630 | |
| | | 3P | 4P | 3P | 4P |
| Number of devices per row | | 2 | | 2 | |
| Number of vertical modules | | 10 | | 10 | |
| Mounting plates | | LVS03428 | | LVS03458 | |
| Front plates | | LVS03802 [2] | | - | |
| [No. of vertical modules] | | with cut-out LVS03245 [5] | | LVS03659 [10] | |
| | | downstream LVS03803 [3] | | - | |
| Mechanical interlock | | LV429369 | LV429369 | LV432621 | LV432621 |
| Characteristics | | Interlocking of rotary handles The devices are equipped with a rotary handle. They are mounted on a dedicated mounting plate. | | | |
| Connection | | Downstream distribution | | | |
|  | | | | | |
| Type of connected devices | | ComPacT NSX100/250 | | ComPacT NSX400/630 | |
| | | 3P | 4P | 3P | 4P |
| Front conn. long terminal shields for spreader | | LV429517 | LV429518 | LV432593 | LV432594 |
| | | - | - | LV432595 | LV432596 |
| Coupling accessory | | LV429358 | LV429359 | LV432619 | LV432620 |
| Rear conn. short terminal shields | | LV429515 | LV429516 | LV432591 | LV432592 |

Remote-operated source-changeover ComPacT NSX100/630

Source-changeover

| Mounting | | Horizontal | |
|---|---|--|-------------------|
|  | |  | |
| | |  | |
| Devices | | NSX100/250 | NSX400/630 |
| Number of devices per row | | 2 | 2 |
| Number of vertical modules | | 8 | 10 |
| Mounting plates | | LVS03417 (1) | LVS03457 (2) |
| Front plates [No. of vertical mod.] | with cut-out | LVS03616 [8] | LVS03656 [10] |
| Characteristics | The devices are equipped with motor mechanisms. | | |

| Connection | | Downstream distribution | | | |
|---|------------------------------------|---------------------------|-----------|---------------------------|-----------|
|  | | | | | |
| Type of connected devices | | ComPacT NSX100/250 | | ComPacT NSX400/630 | |
| | | 3P | 4P | 3P | 4P |
| Front connection | long terminal shields for spreader | LV429517 | LV429518 | LV432593 | LV432594 |
| Coupling accessory | | LV429358 | LV429359 | LV432595 | LV432596 |
| Rear connection | short terminal shields | LV429515 | LV429516 | LV432591 | LV432592 |

| Mounting | | Controller | |
|---|--|---|--|
|  | |  | |
| Devices | | UA or BA controller | |
| Number of devices per row | | 1 | |
| Number of vertical modules | | 4 | |
| Mounting plates | | LVS03417 | |
| Front plates [No. of vertical mod.] | with cut-out | LVS03671 [4] | |
| Characteristics | When a UA, BA or UA150 automatic controller is added together with an ACP mounting plate, the sources can be controlled automatically according to a number of programmed operating modes. | | |

(1) Order mounting plate + IVE electrical interlocking unit for NSX100/250 (cat. no. **29350** for AC or **29351** for DC version).

(2) Order mounting plate + IVE electrical interlocking unit for NSX400/630 (cat. no. **32610** for AC or **32611** for DC version).

Incoming and busbar connections to be made.

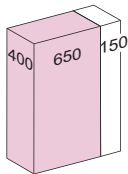
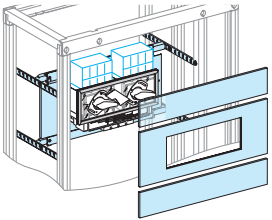
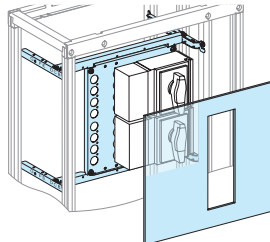



Manual source-changeover

ComPacT INS-INV250 to 630

Front direct rotary handle

Source-changeover

| Mounting | | Front vertical rotary handle | Front horizontal rotary handle |
|---|--|---|--|
|  | |  |  |
| Devices | | Mechanical interlocking | |
| | | INS-INV250 | INS-INV320/630 |
| Number of devices per row | | 2 | 2 |
| Number of vertical modules | | 9 | 10 |
| Mounting plates | | LVS03428 | LVS03458 |
| Front plates | | LVS03802 [2] | - |
| [No. of vertical modules] | | with cut-out LVS03235 [5] | LVS03659 [10] |
| | | downstream LVS03802 [2] | - |
| Mechanical interlock | | 31073 | 31074 |

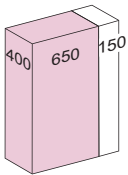
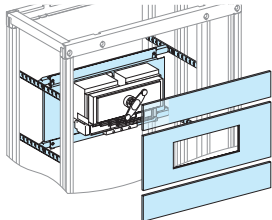
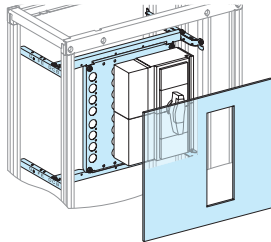
| Distribution | | | | | |
|--|-----------------------------|--------------------|--------------|------------------------|--------------|
|  | | | | | |
| Type of connected devices | | ComPacT INS-INV250 | | ComPacT INS-INV320/630 | |
| | | 3P | 4P | 3P | 4P |
| Front conn. | long terminal shields | 2 x LV429518 | 2 x LV429518 | - | - |
| | long terminal shields 45 mm | - | - | 2 x LV432594 | 2 x LV432594 |
| Coupling accessory | | LV429359 | LV429359 | LV432620 | LV432620 |


Manual source-changeover

ComPacT INS-INV250 to 630

Complete assembly device

Source-changeover

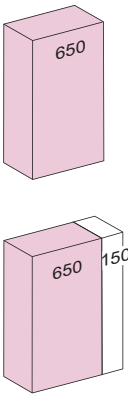
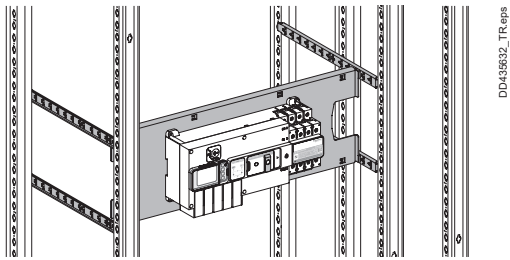
| Mounting | | Vertical complete assembly | Horizontal complete assembly |
|---|--------------|---|--|
|  | |  |  |
| Devices | | Complete source-changeover assembly | |
| | | INS-INV250 | INS-INV320/630 |
| Number of devices per row | | 1 | 1 |
| Number of vertical modules | | 9 | 10 |
| Mounting plates | | LVS03428 | LVS03458 |
| Front plates [No. of vertical modules] | upstream | LVS03802 [2] | - |
| | with cut-out | LVS03247 [5] | LVS03661 [10] |
| | downstream | LVS03802 [2] | - |

| Distribution | | | | | |
|---|-----------------------------|--------------------|--------------|------------------------|--------------|
|  | | | | | |
| Type of connected devices | | ComPacT INS-INV250 | | ComPacT INS-INV320/630 | |
| | | 3P | 4P | 3P | 4P |
| Front conn. | long terminal shields | 2 x LV429518 | 2 x LV429518 | - | - |
| | long terminal shields 45 mm | - | - | 2 x LV432594 | 2 x LV432594 |
| Coupling accessory | | LV429359 | LV429359 | LV432620 | LV432620 |
| Complete source-changeover assembly | 100 A | 31140 | 31141 | | |
| | 160 A | 31144 | 31145 | | |
| | 200 A | 31142 | 31143 | | |
| | 250 A | 31146 | 31147 | | |
| | 320 A | | | 31148 | 31149 |
| | 400 A | | | 31150 | 31151 |
| | 500 A | | | 31152 | 31153 |
| 630 A | | | 31154 | 31155 | |

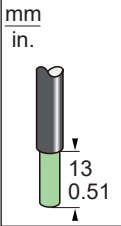
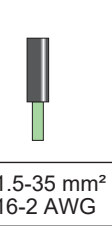
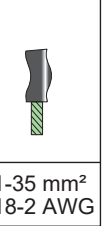
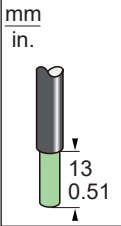
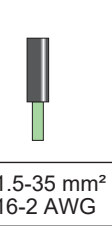
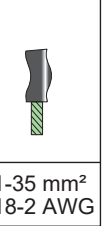
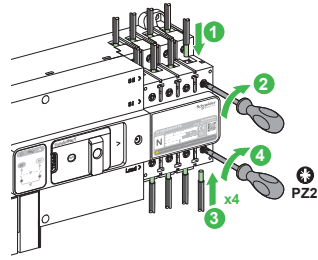
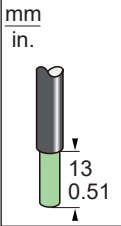
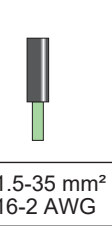
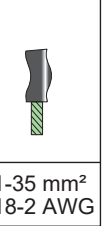


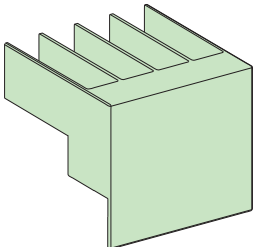
TransferPacT Frame 100A Automatic source changeover system W650/800

Changeover system

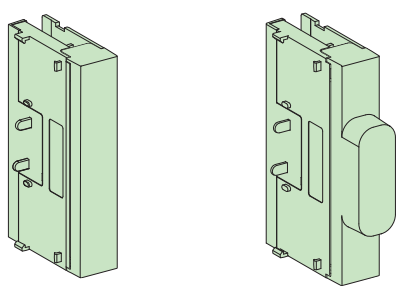
| Mounting | Vertical Fixed |
|---|---|
|  |  |
| Devices | TransferPacT Automatic / Active Automatic 32A-100A 2P/3P/4P |
| No. of devices per row | 1 |
| No. of vertical modules | 6M |
| Mounting plate | LVS03424 |
| Front plate with cut-out | LVS03206 |

Upstream / Downstream Connections

| Cable | <table border="1"> <thead> <tr> <th>mm in.</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>13 0.51</td> <td>1.5-35 mm² 16-2 AWG</td> <td>1-35 mm² 18-2 AWG</td> <td></td> </tr> </tbody> </table> | mm in. |  |  |  | 13 0.51 | 1.5-35 mm ² 16-2 AWG | 1-35 mm ² 18-2 AWG | |  |
|------------|---|---|---|---|---|------------|------------------------------------|----------------------------------|--|--|
| mm in. |  |  |  | | | | | | | |
| 13 0.51 | 1.5-35 mm ² 16-2 AWG | 1-35 mm ² 18-2 AWG | | | | | | | | |

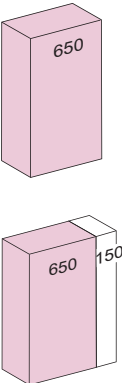
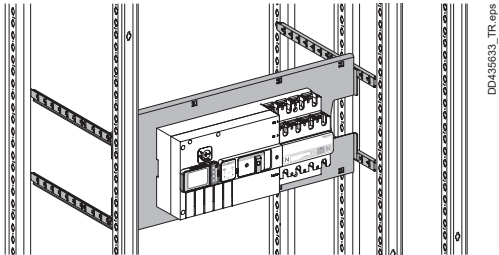
| | |
|-----------------------|---|
| Long terminal shields |  |
| | TPSISO30 |

Auxiliary

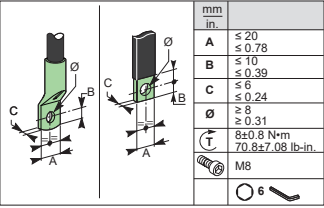
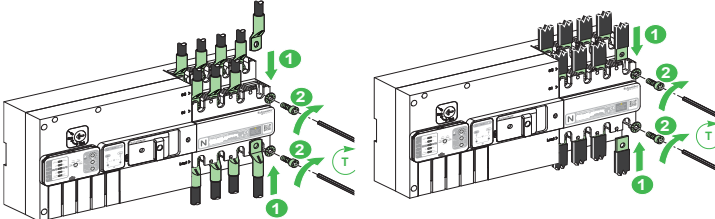
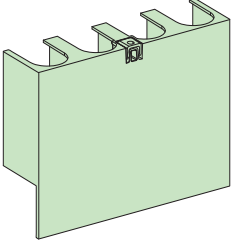
| | |
|---------------------------|---|
| Coupling auxiliary module |  |
| | TPSAUX32 TPSAUX33 |

TransferPacT Frame 160A Automatic source changeover system W650/800

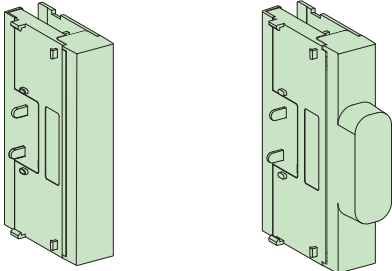
Changeover system

| Mounting | Vertical Fixed |
|---|---|
|  |  |
| Devices | TransferPacT Automatic / Active Automatic 80A-160A 3P/4P |
| No. of devices per row | 1 |
| No. of vertical modules | 8M |
| Mounting plate | LVS03425 |
| Front plate with cut-out | LVS03207 |

Upstream / Downstream Connections

| Cable/Busbars |  <table border="1" style="margin-left: 20px;"> <thead> <tr> <th></th> <th>mm</th> <th>in.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>≤ 20</td> <td>≤ 0.78</td> </tr> <tr> <td>B</td> <td>≤ 10</td> <td>≤ 0.39</td> </tr> <tr> <td>C</td> <td>≤ 6</td> <td>≤ 0.24</td> </tr> <tr> <td>Ø</td> <td>≤ 8</td> <td>≤ 0.31</td> </tr> <tr> <td>T</td> <td colspan="2">8±0.8 N·m 70.8±7.08 lb-in.</td> </tr> <tr> <td></td> <td colspan="2">M8</td> </tr> <tr> <td></td> <td colspan="2">6</td> </tr> </tbody> </table>  | | mm | in. | A | ≤ 20 | ≤ 0.78 | B | ≤ 10 | ≤ 0.39 | C | ≤ 6 | ≤ 0.24 | Ø | ≤ 8 | ≤ 0.31 | T | 8±0.8 N·m 70.8±7.08 lb-in. | | | M8 | | | 6 | |
|-----------------------|--|--------|----|-----|---|------|--------|---|------|--------|---|-----|--------|---|-----|--------|---|-------------------------------|--|--|----|--|--|---|--|
| | mm | in. | | | | | | | | | | | | | | | | | | | | | | | |
| A | ≤ 20 | ≤ 0.78 | | | | | | | | | | | | | | | | | | | | | | | |
| B | ≤ 10 | ≤ 0.39 | | | | | | | | | | | | | | | | | | | | | | | |
| C | ≤ 6 | ≤ 0.24 | | | | | | | | | | | | | | | | | | | | | | | |
| Ø | ≤ 8 | ≤ 0.31 | | | | | | | | | | | | | | | | | | | | | | | |
| T | 8±0.8 N·m 70.8±7.08 lb-in. | | | | | | | | | | | | | | | | | | | | | | | | |
| | M8 | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| Long terminal shields |  <p style="text-align: center;">TPSISO31</p> | | | | | | | | | | | | | | | | | | | | | | | | |

Auxiliary

| | |
|---------------------------|---|
| Coupling auxiliary module |  <p style="display: flex; justify-content: space-around;">TPSAUX32 TPSAUX33</p> |
|---------------------------|---|

TransferPacT Frame 250A Automatic source changeover system W650/800

Changeover system

| Mounting | | Vertical Fixed |
|---|--|----------------|
| | | |
| Devices | TransferPacT Active Automatic 100A-250A 3P/4P TransferPacT Automatic 200A-250A 3P/4P TransferPacT Remote 160A-250A 3P/4P | |
| No. of devices per row | 1 | |
| No. of vertical modules | 13M | |
| Mounting plate | LVS03429 | |
| Front plate [No. of vertical modules] | upstream | - |
| | with cut-out | LVS03210 [11] |
| | downstream | LVS03802 [2] |

| Upstream / Downstream Connections | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|---|---------------------|----------------------|----------------------|----------|---------------------|---------------------|--|--|--|--|--|--|----------------------|----------|----------|---------------------|----------------------|----------|----------|---------------------|----------------------|----------|----------|---------------------|----------------------|----------|----------|---------------------|----------------------|----------|----------|---------------------|
| Cable | | <table border="1"> <thead> <tr> <th colspan="3">CU</th> <th colspan="3">AL</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LV429252 LV429256</td> <td>x3 x4</td> <td>x2 x3</td> <td>120 mm²</td> <td>LV429504 LV429505</td> <td>x3 x4</td> <td>x2 x3</td> <td>150 mm²</td> </tr> <tr> <td>LV429253 LV429257</td> <td>x3 x4</td> <td>x2 x3</td> <td>150 mm²</td> <td rowspan="2">LV429506 LV429507</td> <td rowspan="2">x3 x4</td> <td rowspan="2">x2 x3</td> <td rowspan="2">185 mm²</td> </tr> <tr> <td>LV429254 LV429258</td> <td>x3 x4</td> <td>x2 x3</td> <td>185 mm²</td> </tr> </tbody> </table> | CU | | | AL | | | | | | | | | LV429252 LV429256 | x3 x4 | x2 x3 | 120 mm ² | LV429504 LV429505 | x3 x4 | x2 x3 | 150 mm ² | LV429253 LV429257 | x3 x4 | x2 x3 | 150 mm ² | LV429506 LV429507 | x3 x4 | x2 x3 | 185 mm ² | LV429254 LV429258 | x3 x4 | x2 x3 | 185 mm ² |
| | CU | | | AL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LV429252 LV429256 | x3 x4 | x2 x3 | 120 mm ² | LV429504 LV429505 | x3 x4 | x2 x3 | 150 mm ² | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV429253 LV429257 | x3 x4 | x2 x3 | 150 mm ² | LV429506 LV429507 | x3 x4 | x2 x3 | 185 mm ² | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LV429254 LV429258 | x3 x4 | x2 x3 | 185 mm ² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Busbar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Linergy | <table border="1"> <thead> <tr> <th>LGY</th> <th>LGYE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table> | LGY | LGYE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LGY | LGYE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connection | Front connection flexible busbar - Must be made (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Accessories | | | | | |
|---------------------------|--------------|----------------------------|--------------|------------|--------------|
| | | Available Options | | | |
| | | Cable Size | TransferPacT | | NSX Solution |
| | | 1.5 to 35 mm ² | 3P: TPSCON47 | | LV429248 |
| | | 120 to 240 mm ² | 4P: TPSCON48 | | LV429249 |
| | | | | + LV429518 | |
| 50 to 120 mm ² | 3P: TPSCON49 | LV429244 | | | |
| | | | | TPSISO66 | |
| | | | | | |
| | | | | | |

| Auxiliary | | |
|-----------|---------------------------|----------|
| | Coupling Auxiliary Module | |
| | TPSAUX43 | TPSAUX44 |
| | Power Tag | |
| | LV434021 | |

(1) Connection to be made according to the busbar drawings supplied by Schneider Electric.

TransferPacT Frame 630A Automatic source changeover system W650/800

Changeover system

| Mounting | | Vertical Fixed |
|--|--------------|--|
| | | |
| Devices | | TransferPacT Active Automatic 320A-630A 3P/4P TransferPacT Automatic 320-630A 3P/4P TransferPacT Remote 320-630A 3P/4P |
| No. of devices per row | | 1 |
| No. of vertical modules | | 13M |
| Mounting plate | | LVS03429 |
| Fixed Frame | | LVS03371 (1) |
| Front plate [No. of vertical modules] | upstream | - |
| | with cut-out | LVS03211 [11] |
| | downstream | LVS03802 [2] |

| Upstream / Downstream Connections | | CU | | | | | | AL (2) | | | | | |
|-----------------------------------|---|-----------------------|--------------|-------------------|----------|---------------------|---------------------|-----------------------|--------------|-------------------|---------------------|----|---------------------|
| Cable | | TransferPacT Solution | NSX Solution | Interface Barrier | | | | TransferPacT Solution | NSX Solution | Interface Barrier | | | |
| | | TPSCON57 | LV432500 | + TPSISO65 | x3 | x2 | 240 mm ² | TPSCON61 | LV432504 | + TPSISO65 | x3 | x2 | 240 mm ² |
| | | TPSCON58 | LV432501 | | x4 | x3 | | TPSCON62 | LV432505 | | x4 | x3 | |
| | | TPSCON59 | LV432502 | x3 | x2 | 300 mm ² | TPSCON63 | LV432506 | x3 | x2 | 300 mm ² | | |
| TPSCON60 | LV432503 | x4 | x3 | | TPSCON64 | LV432507 | x4 | x3 | | | | | |
| Busbar | | | | | | | | | | | | | |
| Linergy | | LGY | | | | | | LGYE | | | | | |
| | | | | | | | | | | | | | |
| Connection | Front connection flexible busbar - Must be made (2) | | | | | | | | | | | | |

| Accessories | | | | | | | |
|----------------------|----------------------|---------------------------|--------------|--------------|----------------------|-------------------|--|
| Bare Cable Connector | Long Terminal Shield | Available Options | | | | Insulating Screen | |
| | | Cable Size | TransferPacT | NSX Solution | Long Terminal Shield | TPSISO67 | |
| | | 35 to 300 mm ² | 3P: TPSCON53 | LV432479 | + TPSISO42 | | |
| | | 35 to 300 mm ² | 4P: TPSCON54 | LV432480 | | | |

| Auxiliary | |
|---------------------------|----------|
| Coupling Auxiliary Module | |
| | |
| TPSAUX43 | TPSAUX44 |

(1) Must use fixed frame LVS03371.

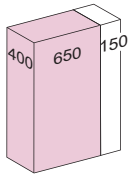
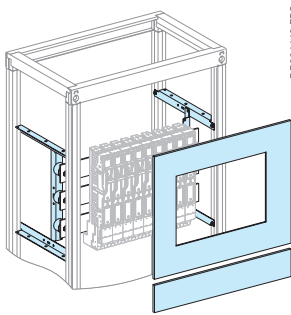
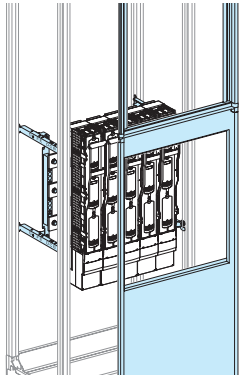
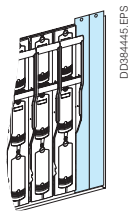
(2) Connection to be made according to the busbar drawings supplied by Schneider Electric.


Fupact ISFL

Vertical / 3P

Determining the busbars

Fusegear

| Mounting | Through cut-out front plate | Through a 2/3 cut-out front plate | | | Accessories |
|---|---|--|------------------------|----------------------|---|
|  |  |  | | |  |
| Devices | ISFL160 | ISFL160 | ISFL250/400/630 | ISFL 1250 | |
| Number of devices per row | 9 | 10 | 5 | 2 | - |
| Number of vertical modules | 11 | 24 | 24 | 24 | - |
| Mounting plates | LVS03545 + (1) | LVS03546 + (1) | LVS03546 (1) + (2) | LVS03546 + (2) | - |
| Length adapter | - | + 5 x LV480870 (2) | - | - | - |
| Conversion kit for direct conn. | - | + 5 x LV480854 (2) | - | - | - |
| Front plates with cut-out [No. of vertical mod.] | LVS03736 [11] | - | - | - | - |
| FAV 2/3 | - | LVS03735 [24 + 12] | LVS03735 [24 + 12] | LVS03735 [24 + 12] | - |
| Side frame door cut-out | LV480868 LV480869 | LV480868 LV480869 | LV480868 LV480869 | LV480868 LV480869 | - |
| Blanking plate | LVS03740 | LVS03740 | LVS03741 (3) | 2 x LVS03741 | - |
| Busbars cover | - | - | - | - | LVS04860 |
| Characteristics | <ul style="list-style-type: none"> The fuses are installed on the horizontal bars which are in turn supported by a mounting plate The front plates are secured to the hinged front plate support frame. The front may be covered either by a cover frame or a plain or transparent door. Current transformers can be installed behind ISFL fuse-switch-disconnectors. | <ul style="list-style-type: none"> The fuses are installed on the horizontal bars which are in turn supported by a mounting plate The front of the cubicle is made up of two parts: <ul style="list-style-type: none"> 2/3 cut-out front plate allowing introduction of the fuses 1/3 front plate support frame (12 modules) cat. number LVS08562 on which the functional units are mounted The front may be covered either by a cover frame or a plain or transparent door. Current transformers can be installed behind ISFL fuse-switch-disconnectors. | | | |

| Connection | Direct |
|---|---|
|  | |
| Devices | ISFL160/630 |
| Connection | By cables or directly on the busbars with clamp fixing or pressure fixing |

| Distribution | |
|---|--------------------|
|  | |
| Devices | ISFL160/630 |
| Downstream connection | With cable |

(1) The bars are made by the customer: for choice of bars > pages G-2 to G-13.

(2) Adaptation accessories LV480870 + LV480855 used to:

- install two ISFL160 devices on a mounting plate LVS03546
- mix ISFL devices.

(3) Use 2 blanking plates per device.

Note:

- for ISFL160, by fixing screws only.
- for determining the busbar > page I-58.

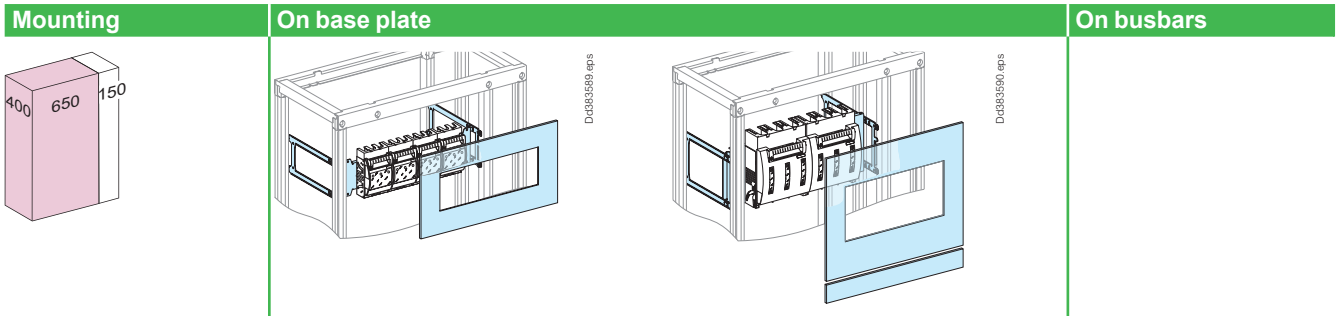
Fupact ISFT

Vertical / 3P

Installation on mounting plate or busbars

Determining the busbars

Fusegear/Switch-disconnector



| Mounting | On base plate | | | | | | On busbars | |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Devices | ISFT100 | ISFT100N | ISFT160 | ISFT250 | ISFT400 | ISFT630 | ISFT100N | ISFT160 |
| Number of devices per row | 5 | 8 | 4 | 2 | 2 | 1 | 6 | 4 |
| Number of vertical modules | 6 | 8 | 6 | 9 | 9 | 10 | 8 | 6 |
| Mounting plates | LVS03554 | LVS03553 | LVS03556 | LVS03557 | LVS03557 | LVS03557 | LVS03555 | LVS03555 |
| Front plates with cut-out downstream [No. of vertical mod.] | LVS03320 [6] | LVS03325 [8] | LVS03321 [6] | LVS03322 [9] | LVS03323 [9] | LVS03324 [8] | LVS03325 [8] | LVS03321 [6] |
| | - | - | - | - | - | LVS03802 [2] | - | - |

| Connection | Direct | | | | | | | |
|-----------------------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Devices | ISFT100 | ISFT100N | ISFT160 | ISFT250 | ISFT400 | ISFT630 | ISFT100N | ISFT160 |
| Connection | must be made Downstream, with cable or flexible bars | | | | | | | |
| Long terminal shields | - | LV480756 | LV480819 | LV480824 | LV480827 | LV480831 | - | LV480819 |

| Distribution | | | |
|---|--------------|-----------------|--|
| Linergy FH for 2 devices | 49861 | LV480811 | |
| for 3 devices | 49862 | LV480812 | |
| for 4 devices | 49863 | LV480813 | |
| Set of 3 connectors (25 to 95 mm²) | 49865 | LV480818 | |
| Set of 3 distribution connectors 3 x 10 mm² | 49860 | LV480814 | |

Note: for determining the busbar > [page I-58](#).



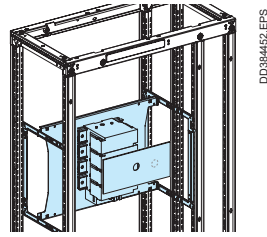
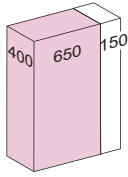
Fupact GS

Horizontal / Vertical

Extended rotary handle

Fusegear/Switch-disconnector

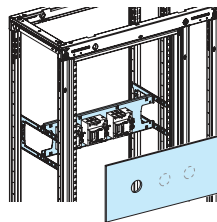
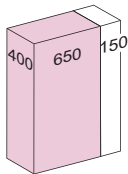
Mounting Horizontal



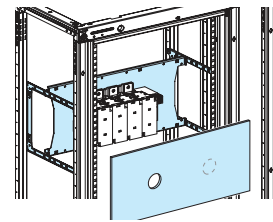
DD384452.EPS

| Devices | | GS32 | GS63 | GS100 (1) | GS160 (1) | GS250 | GS400 |
|----------------------------|-----------------------------------|----------|----------|---------------|-----------|----------|----------|
| | | 3P or 4P | | | | | |
| Number of devices per row | | 1 | | | | | |
| Number of vertical modules | | 3 | 5 | | | 7 | 8 |
| Mounting plates | | LVS03559 | LVS03560 | LVS03560 | | LVS03564 | LVS03566 |
| Front plates | with cut-out | LVS03308 | LVS03309 | LVS03309 | | LVS03346 | LVS03347 |
| | Nb of vertical modules downstream | - | - | LVS03801 [1M] | | | |
| Upstream connection | | | | | | | |
| Terminal | 3P | - | - | GS1AP33 | GS1AP43 | | |
| Cover | 4P | - | - | GS1AP34 | GS1AP44 | | |

Mounting Vertical



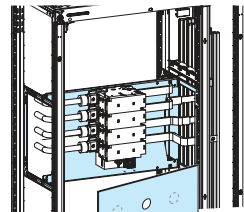
DD381858.EPS



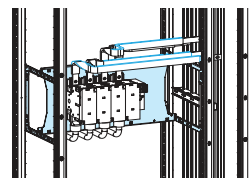
DD381859.EPS

| Devices | | GS32 | GS63 | GS100 (1) | GS160 (1) | GS250 | GS400 |
|----------------------------|-----------------------------------|----------|----------|-----------|-----------|----------|----------|
| | | 3P or 4P | | | | | |
| Number of devices per row | | 3 | 2 | | | 1 | |
| Number of vertical modules | | 3 | 5 | | | 6 | |
| Mounting plates | | LVS03559 | LVS03563 | | | LVS03565 | LVS03567 |
| Front plates | with cut-out | LVS03308 | LVS03309 | | | LVS03349 | LVS03349 |
| | Nb of vertical modules downstream | - | - | | | - | - |
| Upstream connection | | | | | | | |
| Terminal | 3P | - | - | GS1AP33 | GS1AP43 | | |
| Cover | 4P | - | - | GS1AP34 | GS1AP44 | | |

Distribution Lateral busbars



DD384454.EPS



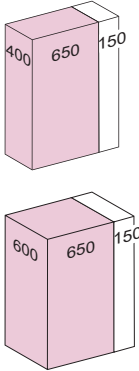
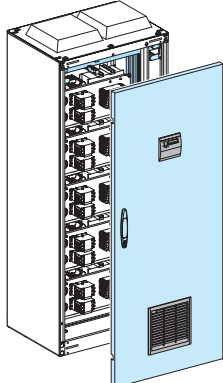
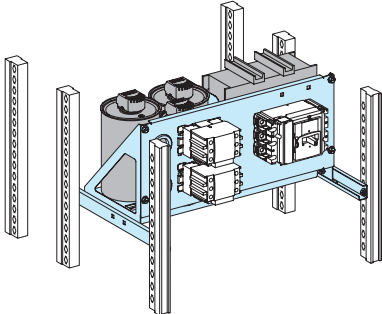
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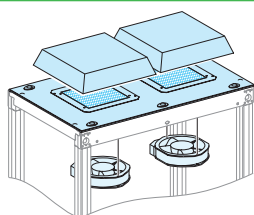
Linergy LGYE, Linergy LGY or Linergy BS busbars (2)

Busbars connection Must be made

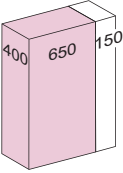
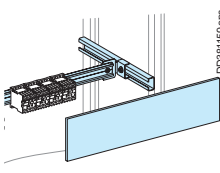
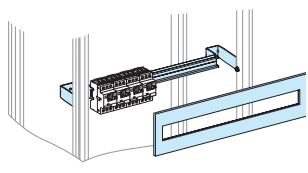
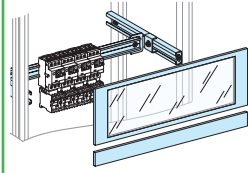
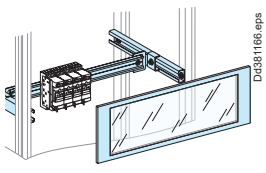
(1) For DIN fuses only.

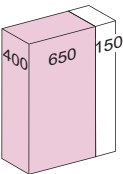
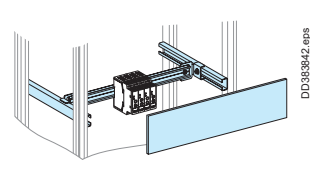
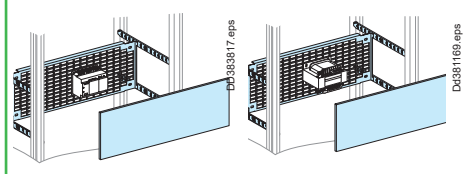
(2) Selection of flexible bars for the connection Fupact GS ≤ 400 A: > page I-58

| Mounting | Door with cut-outs | Mounting plate |
|---|---|--|
|  |  |  |
| Catalog number | LVS03970 | LVS03979 |
| Characteristics | Special standard cover panels are used. However, a special IP30 door is used (W650 mm with hinges on left only) that has cut-outs, one for the VarplusLogic power factor controller and another in the bottom for a filter. | The mounting plates are designed for installation of capacitors, contactors and devices protecting against internal faults. The power factor correction modules are installed horizontally in the cubicle. Gasket gland plate NSYTPV is necessary for mounting plate wiring. |

| Mounting | Ventilation accessories | | | | | |
|-----------------|--|--|---|--|--|---|
| |  | | | | | |
| Cover panels | Roof with cut-out D = 400 mm D = 600 mm | Fan + top hood | Top hood without fan | Outlet grill | Fan with filter | Spare filter |
| Catalog number | LVS08478 LVS08678 | NSYCVF575M230MB | NSYCAC228RMB | NSYCAG291LPF | NSYCVF850M230PF | NSYCAF228R |
| Characteristics | A roof with a cut-out ensures natural ventilation of the equipment. It can also be equipped with two fans. | Fan characteristics <ul style="list-style-type: none"> Power: 85 W Input voltage: 230 V Throughput via outlet grill: <ul style="list-style-type: none"> with 1 outlet grill: 350 m³/hr Free with filter: 575 m³/hr Noise level: 64 dB. Top hood characteristics <ul style="list-style-type: none"> Material: steel Finishing parts: painted with epoxy-polyester resin, textured RAL 9003, white IP54 Fixing to the top by means of caged nuts and special screws | <ul style="list-style-type: none"> Material: steel Finishing parts: painted with epoxy-polyester resin, textured RAL 7035 grey IP54 Fixing to the top by means of caged nuts and special screws | <ul style="list-style-type: none"> Material: Injected thermoplastic (ASA PC). self-extinguishing according to UL 94 V-0 RAL 9003, white IP54 | <ul style="list-style-type: none"> Power: 150/195 W Input voltage: 207 V... 244 V (230 V) Throughput via outlet grill: <ul style="list-style-type: none"> with 1 outlet grill (m³/h): <ul style="list-style-type: none"> 718 (50 Hz) 568 (60 Hz) Free with filter: <ul style="list-style-type: none"> 838 (50 Hz) 803 (60 Hz) Noise level: 76/75 dB | For outlet grill or filter IP54, cut-out 228 x 228 mm |

| Configuration | 200 kvar | 500 kvar |
|-----------------------|--|--|
| Door | | |
| Catalog number | LVS03970 + LVS01110 | LVS03970 + LVS01110 |
| Designation | W650 door IP30 with cut-out + W150 wicket door | W650 door IP30 with cut-out + W150 wicket door |
| For front | | |
| Catalog number | NSYCVF850M230PF | NSYCAG291LPF |
| Designation | Fan with filter | Outlet grill |
| For rear | | |
| Catalog number | LVS08748 | LVS08749 + NSYCAG291LPF |
| Designation | W800 Rear panel IP55 | W800 Rear panel IP55 cut-out + outlet grill |
| Roof | | |
| Catalog number | LVS08478 or LVS08678 | LVS08478 or LVS08678 |
| Designation | Roof with cut-out | Roof with cut-out |
| On roof | | |
| Catalog number | NSYCAC228RMB x 2 | NSYCVF575M230MB x 2 |
| Designation | 2 top hood without fan IP54 | 2 fans + top hood IP54 |
| Mounting plate | | |
| Catalog number | LVS03979 | LVS03979 |
| Designation | Mounting plate | Mounting plate |

| Mounting | | On a modular rail | | | | | | | | |
|---|--------------|---|--|---|---------------|--|--|---|-------------------|--|
|  | |  | |  | |  | |  | | |
| Devices | | Contactor | | Circuit breaker | | | Circuit breaker + contactor | | TeSys | |
| | | Series D and K ≤ 40 A contactors | | GV2RT- GV2ME- GV2LE | GV2L- GV2P | GV3 | GV2 + Series D and K ≤ 40 A contactors | | TeSys modèle U | |
| Number of vertical modules | | 3 | | 3 | 3 | 5 | 5 | | 5 4 (1) | |
| Useful length of rail (mm) | | 432 | | 432 | | | 432 | | 432 | |
| Modular rail (adjustable) | | LVS03402 | | LVS03401 (2) | LVS03402 | LVS03402 | LVS03402 | | LVS03402 | |
| Front plates [No. of vertical mod.] | plain | LVS03803 [3] | | - | | | - | | LVS03804 [4] | |
| | transparent | - | | - | | | LVS03342 [4] | | - ou LVS03342 [4] | |
| | with cut-out | - | | LVS03203 [3] | LVS03203 [3] | LVS03205 [5] | - | | LVS03205 [5] - | |
| | downstream | - | | - | | | LVS03801 [1] | | - | |
| Characteristics | | - | | Width of devices without lateral auxiliaries: 45 mm. | | | | | | |

| Mounting | | On a modular rail | | | | On a base plate | |
|--|--|--|-------------------------------------|------------------|--|---|--|
|  | |  | | | |  | |
| Devices | | Soft starters ATS01 | | | | LV/LV transformer | |
| | | ATS01N103/106FT | ATS01N109/112FT ATS01N206 to 212 | ATS01N222 to 232 | ATS01N230LY ATS01N244LY ATS01N244Q | ATS01N272LY ATS01N285LY ATS01N272Q ATS01N285Q | ABL6-TS/TD up to 2500 VA ABL6-RT up to 960 W ABL6-RF up to 480 W |
| Number of vertical modules | | 4 | 5 | 6 | 5 | 6 | 4 |
| Useful length of rail (mm) | | 432 | 432 | 432 | 432 | - | - |
| Modular rail (adjustable) | | LVS03402 | | LVS03402 | LVS03402 | - | - |
| Slotted mounting plates | | - | | - | - | LVS03572 | LVS03571 |
| Front plate plain [No. of vertical mod.] | | LVS03804 [4] | LVS03805 [5] | LVS03806 [6] | LVS03805 [5] | LVS03806 [6] | LVS03804 [4] |
| Characteristics | | Width of devices (mm) | | | | | |
| | | 22.5 | 45 | 45 | 180 | 180 | - |

(1) Version without communication module, auxiliary contact and reversing module.

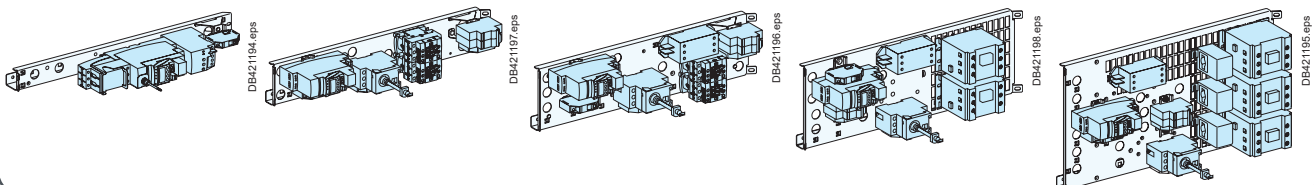
(2) Non-adjustable.



Dedicated mounting plate for Motor Control functional units.
5 commercial references from 1 to 6 modules mounting plates are installed in 650 mm wide cubicle.

- Easy installation
- Switchboard upgradeability
- Mounting plate optimal stacking density
- Functional units reliability.

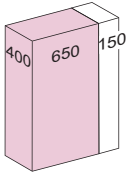
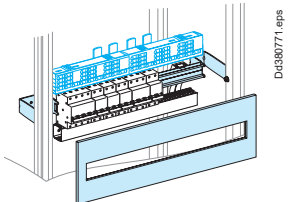
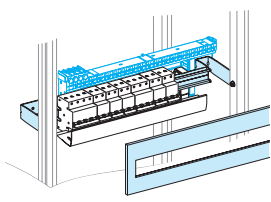
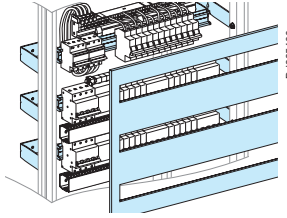
See PrismaSeT MCC Catalog DESW049EN.

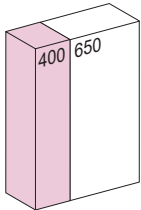
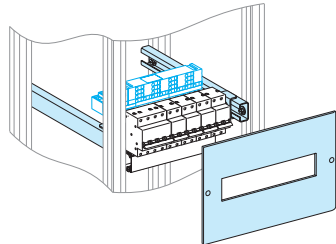



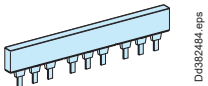
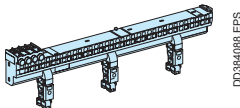
Modular devices

Acti 9 ≤ 63 A

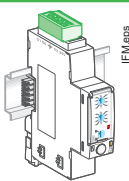
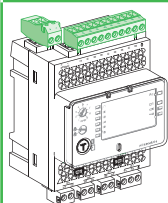
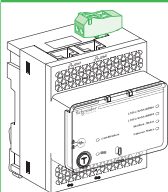
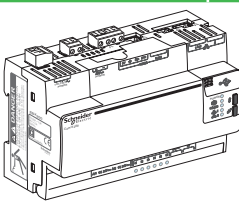

Circuit breakers

| Mounting | Horizontal distances between centres: 200 mm | Horizontal distances between centres: 150 mm | |
|---|---|--|---|
|  |  |  |  |
| Devices | All modular devices | Modular devices ≤ 40 A | |
| Rail length (modules of 9 mm) | 48 | 48 | 48 |
| No. of vertical modules | 4 (1) | 3 | 8 |
| Rail (48 modules of 9 mm) | LVS03401 | LVS03401 | 3 x LVS03401 |
| Modular front plates | LVS03204 | LVS03203 | LVS03223 |
| Blanking strip | LVS03220 | LVS03220 | LVS03220 |
| plate divisible | LVS03221 | LVS03221 | LVS03221 |

| Mounting | Horizontal distances between centres: 200 mm | Horizontal distances between centres: 150 mm | |
|--|--|--|-----------------------|
|  |  | | |
| Devices | All modular devices | Modular devices ≤ 40 A | |
| Rail length (modules of 9 mm) | 20 | 20 | 20 |
| No. of vertical modules | 4 | 3 | 3 |
| Rail (20 modules of 9 mm) | LVS03404 (adjustable) | LVS03404 (adjustable) | LVS03404 (adjustable) |
| Modular front plates | LVS03214 [4] | LVS03213 [3] | LVS03213 [3] |
| Blanking plate strip | LVS03220 | LVS03220 | LVS03220 |
| divisible | LVS03221 | LVS03221 | LVS03221 |

| Connection | Linery FH comb busbar | Distribution block Linery FM 63 to 200 A row |
|---|---|--|
|  |  |  |
| Type of connected devices | According devices | All type |
| Comb busbars / distribution blocks | > page G-28 | > page G-25 |

Linery TR Terminal blocks: > page G-40.

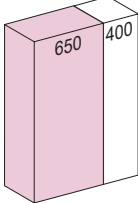
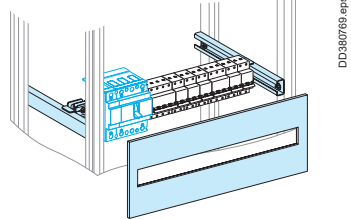
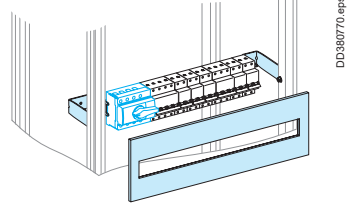
| | EnerlinX devices | | | | |
|-------------------------|---|---|--|---|---|
| | IFM | I/O module | IFE | ComX200 | ComX510 |
| |  |  |  |  |  |
| No. of vertical modules | 4 | | | | |
| Rail | LVS03401 / LVS03404 | | | | |
| Modular front plates | LVS03204 / LVS03214 | | | | |
| Characteristics | Installation by clip on a modular rail. | | | | |

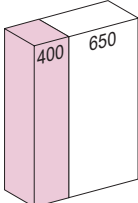
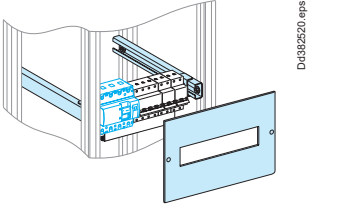
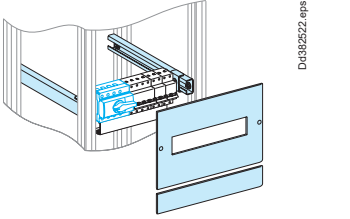
(1) For a modular row with a 160 A (half row) and 200 A Linery FM distribution block positioned directly below a non-modular mounting-plate (ComPacT, etc.), or at the top of a switchboard, add one additional module (i.e. 4+1) and a plain upstream front plate (LVS03801).


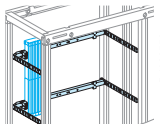
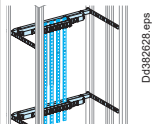
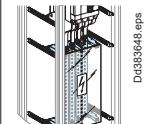
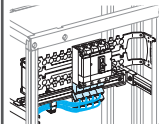
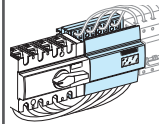
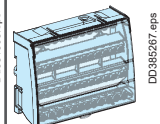
Modular devices

80/160 A switchboard incomer

Circuit breakers

| Mounting | Circuit breakers | | Switch-disconnectors | |
|---|---|---|--|--|
|  |  | |  | |
| Devices | NG160, NG160NA Vigi NG160 | NG125, NG125NA, Vigi NG125, C120, Vigi C120, iC120, Vigi iC120 | ComPacT INS40/160 | ComPacT INS-INV100/160 with long terminal shields |
| No. of vertical modules | 5 | 5 | 4 | 5 |
| Rail (48 modules of 9 mm) | LVS03402 (adjustable) (1) + LVS04227 | LVS03401 | LVS03401 | LVS03401 |
| Modular front plates | LVS03205 | LVS03205 | LVS03204 | LVS03205 |
| Blanking plate strip | LVS03220 | | LVS03220 | |
| divisible | LVS03221 | | LVS03221 | |

| Mounting | Circuit breakers | | Switch-disconnectors | |
|--|--|--|---|---|
|  |  | |  | |
| Devices | NG160, NG160NA, NG125, NSA125/160 | | INS-INV40/160 | INS-INV100/160 with long terminal shields |
| No. of vertical modules | 5 | | 4 | 5 |
| Rail (20 modules of 9 mm) | LVS03404 (adjustable) (2) | | LVS03404 (adjustable) | LVS03404 (adjustable) |
| Front plates modular | LVS03214 [4] | | LVS03214 [4] | LVS03214 [4] |
| [No. of vertical modules] downstream | LVS03811 [1] | | - | LVS03811 [1] |
| Blanking plate strip | LVS03220 | | LVS03220 | LVS03220 |
| divisible | LVS03221 | | LVS03221 | LVS03221 |

| Connection | Insulated Linergy BW busbars | Rear Linergy BS busbars | Linergy BS multi-stage busbars | Linergy DP 1P, 160 A distribution block | Linergy DX 4P, 160 A distribution block | Linergy DS multi-stage distribution |
|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |
| Type of connected devices | All type | All type | All type | All type | All type | All type |
| Distribution block / busbars | | > page G-9 | > page G-11 | > page G-14 | > page G-22 | > page G-26 |
| Connection | | must be made | must be made | > page G-14 | > page G-22 | must be made |

(1) Can be completed by a rail + raiser (cat. no. LVS04227) to instal modular devices on.
Note: width of NG160 circuit breakers: NG160 3P: 10 modules / NG160 4P: 14 modules
 Vigi NG160 3P: 24 modules / Vigi NG160 4P: 27 modules
 width of NG125 circuit breakers: NG125 3P: 9 modules / NG125 4P: 12 modules
 Vigi NG125 3P ≤ 63 A: fixed sensitivity 18 modules
 adjustable sensitivity 20 modules
 > 63 A: fixed sensitivity 20 modules
 adjustable sensitivity 20 modules
 Vigi NG125 4P ≤ 63 A: fixed sensitivity 21 modules
 adjustable sensitivity 23 modules
 > 63 A: fixed sensitivity 23 modules
 adjustable sensitivity 23 modules
 C120 or iC120 3P: 9 modules / C120 or iC120 4P: 12 modules
 Vigi C120 or iC120 3P: 19 modules / Vigi C120 or iC120 4P: 22 modules
 width of devices: INS-INV40/80: width 10 modules
 INS-INV100/160: width 15 modules.

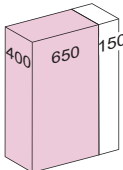
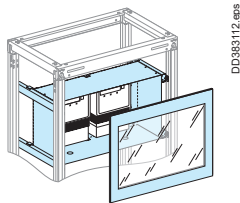
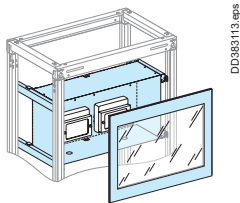
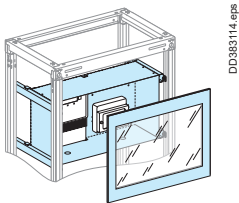
(2) Can be completed by a rail + raiser (LVS04227) to instal modular devices on.
Note: to mix an NSA125/160 circuit breaker with Multi 9 or Acti 9 modular devices, order (with the device) the symmetrical rail + raiser set (28041).
 Width of devices: NSA125/160 3P: 10 modules / NSA125/160 4P: 14 modules.

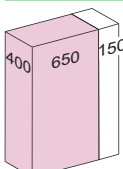
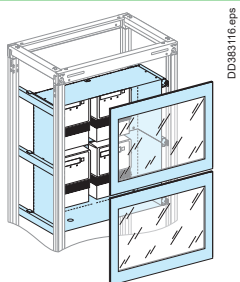
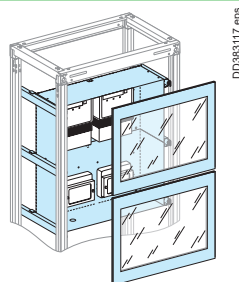
Metering

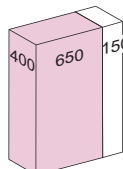
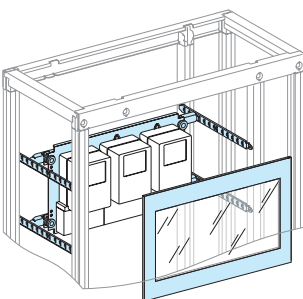
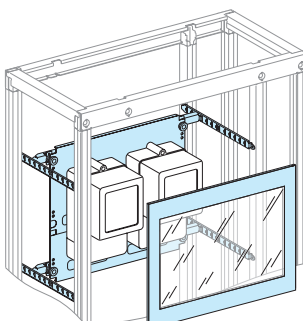
Single-phase and 3-phase kilowatt-hour meters

Class 1 & 2

Others

| Mounting | | With 1 mounting plate | | |
|---|-------------|---|--|---|
|  | |  |  |  |
| Devices | | Meter and connection block | | |
| | | Meter 3 Ph + N | Connection block | Meter + connection block |
| Number of devices per row | | 2 | 2 | 1 + 1 |
| Number of vertical modules | | 6 | 6 | 6 |
| Mounting plates | | LVS03508 | LVS03508 | LVS03508 |
| Front plates | transparent | LVS03343 [6] | LVS03343 [6] | LVS03343 [6] |
| [No. of vertical mod.] | or plain | LVS03806 [6] | LVS03806 [6] | LVS03806 [6] |

| Mounting | | With 2 mounting plates | |
|--|-------------|--|---|
|  | |  |  |
| Devices | | Meter and connection block | |
| | | Meter 3 Ph + N | Meter + connection block |
| Number of devices per row | | 4 | 2 + 2 |
| Number of vertical modules | | 12 | 12 |
| Mounting plates | | 2 x LVS03508 | 2 x LVS03508 |
| Front plates | transparent | 2 x LVS03343 [6] | 2 x LVS03343 [6] |
| [No. of vertical mod.] | or plain | 2 x LVS03806 [6] | 2 x LVS03806 [6] |

| Mounting | | Behind front plate | |
|---|-------------|---|--|
|  | |  |  |
| Devices | | Meter and connection block | |
| | | Single-phase (Ph + N) | 3-phase (3 Ph + N) |
| Number of devices per row | | 3 | 2 |
| Number of vertical modules | | 6 | 9 |
| Mounting plates | | - | LVS03152 |
| Front plates | transparent | LVS03343 [6] | LVS03344 [9] |
| [No. of vertical mod.] | or plain | LVS03806 [6] | - |
| Insulating plate | | - | - |
| Adapter | | LVS03595 | LVS03595 |
| Accessories | | M5 spacers for mounting plate > page F-24 | |

Note: meters can be installed at different levels on the functional uprights of frameworks.

Metering and human-switchboard interface

PowerLogic™ Meters

Others

★ Presentation

PowerLogic™ Meters

Schneider Electric provides these tools via the world's most advanced energy intelligence technology: PowerLogic. The PowerLogic range of meters help manage all energy assets, every second of the day.

PowerLogic PM5000 series



- The ideal fit for cost management applications, the PowerLogic™ PM5000 power meter provides:
- > Sub-billing/tenant metering
 - > Equipment sub-billing
 - > Energy cost allocation
 - > Track real-time power conditions
 - > Monitor control functions
 - > Provide basic power quality values
 - > Monitor equipment and network status.

Acti9 iEM2000 & iEM3000 series



- The Acti9 iEM2000 & iEM3000 energy meter series offers a cost-attractive, competitive range of DIN rail-mounted energy meters ideal for:
- > Bill checking to verify that you are only charged for the energy you use
 - > Sub billing individual tenants for their energy consumption, including WAGES
 - > Aggregation of energy consumption, including WAGES, and allocating costs per area, per usage, per shift, or per time within the same facility
 - > Basic metering of electrical parameters to better understand the behavior of your electrical distribution system.
- Combined with communication systems, like Smart Link, the Acti9 iEM2000 & iEM3000 series makes it easy to integrate electrical distribution measurements into facility management systems. It's the right energy meter at the right price for the right job.

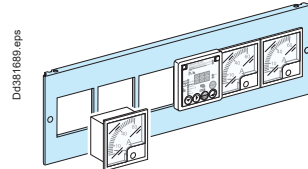
Possible installation

| Cat. number | LVS 03904 | LVS 03928 | LVS 03910 | LVS 03911 | LVS 03913 | LVS 03912 | LVS 03914 |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Front plate frame support (LVS08566) | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| L300/L400 with cut-out (LVS08593, LVS08594) | ■ | ■ | ■ | ■ | ■ | - | - |

Note: device mounting on door: earthing braid (cat. no. LVS08910) or earthing wire (cat. no. 08911) mandatory.

○ Installation in a switchboard

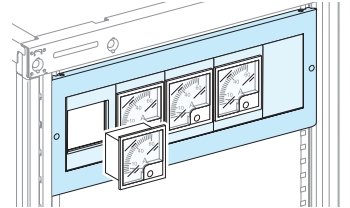
On a metal front plate with cut-outs, H = 150 mm (3 modules)



- > Devices are attached directly to the metal front plate.
- > Blanking plates are available to blank off any unused locations.
- > Economical solution.

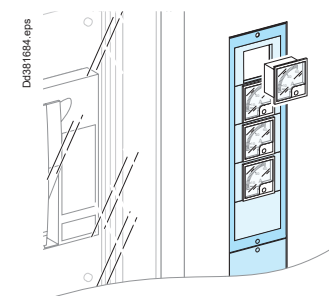
①

- > In the device zone of enclosures and cubicles, like a front plate



②

- > On a door with cut-outs in a 300 or 400 mm wide cubicle
- > On a inclined visor




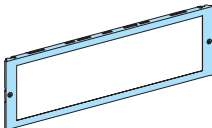



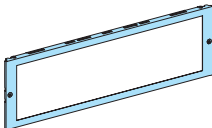




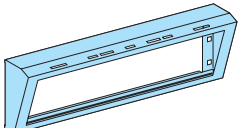



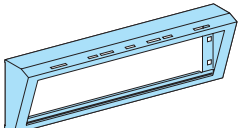




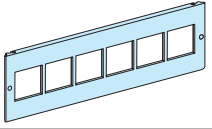


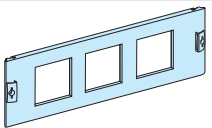


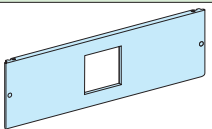





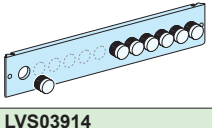



The degree of protection for installed devices is IP30.

Notes:

- To maintain the IP55 degree of protection, the measurement devices must be installed behind a transparent door. If they are installed on a plain door, use the corresponding mounting plates.
- With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. LVS08585). The earthing braid must be connected to the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else).
- With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else) must be connected to the cubicle frame, using an earthing braid (cat no. LVS08910 or LVS08911). (standard NF / EN 61439-1 2011 edition).

Metering and human-switchboard interface

Others

| Number and type of devices per row | Metal front plate with cut-out | No. of vertical mod. | Plastic mounting plates with cut-out | Blanking plate or devices support |
|--|--|----------------------|--|---|
| W650 Mounting on an interface with plastic mounting plates | | | | |
| 5 x  Vigirex and others devices 72 x 72 |  DD385458.eps | 3 |  DD385465.eps |  DD385466.eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 |
| 4 x  Power Meter and others devices 96 x 96 |  DD385458.eps | |  DD385467.eps |  DD385468.eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device |
| 2 x  For PM200, 200P, PM5 & PM8 series meters | | LVS03904 | LVS03903 | LVS03901 |
| W650 Mounting on an inclined visor by 30° with plastic mounting plates | | | | |
| 5 x  Vigirex and others devices 72 x 72 |  DD385459.eps | 3 |  DD385465.eps |  DD385466.eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 |
| 4 x  Power Meter and others devices 96 x 96 |  DD385459.eps | |  DD385467.eps |  DD385468.eps To blank-off or install: - 1 to 4 Ø 16 or 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device |
| 2 x  For PM200, 200P, PM5 & PM8 series meters | | LVS03928 (1) | LVS03903 | LVS03901 |
| W650 Direct mounting on a metal front plate with cut-outs | | | | |
| 72 x 72 device | | | | |
| 6 x  Vigirex and others devices 72 x 72 |  DD385460.eps | 3 | Direct mounting |  DD385469.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 |
| | LVS03910 | - | - | LVS03907 |
| 96 x 96 device | | | | |
| 3x  Power Meter and others devices 96 x 96 |  DD118465.eps | 3 | Direct mounting |  DD385470.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device |
| | LVS03911 | - | - | LVS03908 |
| 1 x  Power Meter and others devices 96 x 96 |  DD385462.eps | 3 | Direct mounting |  DD385470.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device |
| | LVS03913 | - | - | LVS03908 |
| 144 x 144 device + 72 x 72 devices | | | | |
| 1 x  144 x 144 device + devices 72 x 72 | | 4 | Direct mounting |  DD385469.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 |
| 4 x  | | | - | - |
| W650 Pushbuttons and lamps Ø 22 mm | | | | |
| 12 x  |  DD385464.eps | 2 | Direct mounting | |
| | LVS03914 | - | - | - |
| W400 Front plate | | | | |
| 1 x  Power Meter and others devices 96 x 96 |  DD385960.eps | 3 | Direct mounting |  DD385470.eps To blank-off or install: - 1 or 2 Ø 22 mm buttons - 1 device, 45 x 45 - one 72 x 72 device |
| | LVS03923 | - | - | LVS03908 |

(1) The visor (cat. no. LVS03928) can be installed on a plain door with cut-out.
 (2) For PM200, 200P, PM5 & PM8 series meters, use 2 no. blank off sheets between each meter.

Metering and human-switchboard interface

PowerLogic™ Meters

Vigilohm, Vigirex

Others

| Mounting | | Powerlogic system | | | | |
|-------------------------------------|--|---|--------------|--|----------------------------|--------------------------------------|
| | | | | | | |
| Devices | | FDM121, PM5000 & PM8000 series (2) | | PM3000 series, IEM2000 & iEM3000 series | FDM128 (1) | PM5RD, PM89RD96, PM5563RD (3) |
| | | 1 device | 3 devices | | | |
| Number of vertical mod. | | 3 | 3 | 3 or 4 | 4 | 4 |
| DIN rail | | - | - | LVS03402 | - | LVS03402 |
| Front plates [No. of vert. modules] | | transparent | | LVS03342 [4] | - | - |
| | | plain | | - | LVS03804 [4] | LVS03804 [4] |
| | | with cut-out | LVS03913 [3] | LVS03203 [3] | - | - |
| Front plate | | with cut-out for devices 96 x 96 | | | hole ø 22 mm to be stamped | hole ø 30 mm to be stamped |

| Mounting | | Powerlogic system | | |
|-------------------------------------|--|---|----------------------------|--------------------------------------|
| | | | | |
| Devices | | FDM121, PM5000 series, PM8000 series (2) | FDM128 (1) | PM5RD, PM89RD96, PM5563RD (3) |
| Number of vertical mod. | | 3 | 4 | 4 |
| DIN rail | | - | - | LVS03404 |
| Front plates [No. of vert. modules] | | with cut-out | - | - |
| | | plain | LVS03923 [3] | LVS03814 [4] |
| Front plate | | with cut-out for devices 96 x 96 | hole ø 22 mm to be stamped | hole ø 30 mm to be stamped |

| Mounting | | Vigilohm | | |
|----------------------------|--|---|--|--|
| | | | | |
| Devices | | IM400 with 3 XD301 or with 1 or 2 IFL12 | IM10, IM10H, IM20, IM20H HV-IM20, HV-IM400, IM9, IM9-OL | IM10 / IM10H IM20 / IM20H |
| Number of vertical mod. | | 6 | 3 | 3 |
| Modular rail | | - | LVS03401 | - |
| Mounting plates | | LVS03930 | - | - |
| Front plates with cut-outs | | LVS03932 | LVS03203 | LVS03911 |
| Characteristics | | Installation in the device compartment | | |

| Mounting | | Vigirex | | Acti 9 | |
|----------------------------|--|--|--|---------------------------|--|
| | | | | | |
| Devices | | RH10/RH21/RH99/RH197M relays | | Lamps, pushbuttons | |
| Number of vertical mod. | | 3 | | 2 | |
| Modular rail | | LVS03401 | | LVS03401 | |
| Front plates with cut-outs | | LVS03203 | | LVS03203 | |
| Blanking strip | | LVS03220 | | LVS03220 | |
| plate divisible | | LVS03221 | | LVS03221 | |
| Characteristics | | Installation in the device compartment | | | |

(1) For 72 x 72 mm cases > page E-66.
 (2) Only for flush-mounted versions of PM5000 series and PM8000 series.
 (3) Only for remote-display versions of PM5000 series and PM8000 series.

Cubicles

Contents

Enclosures

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Dimensions

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Enclosures

| | |
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Cover panels

Enclosures

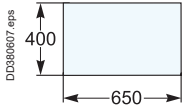
400 mm deep switchboard

For switchboards with front connections.

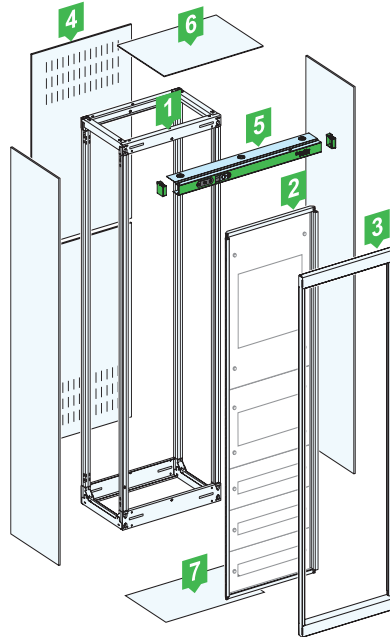
- front panels
- Any of the following can be installed in front of the hinged front plate frame support:
 - a transparent door (IP30 or IP55)
 - a plain door (IP30 or IP55)
 - a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

Parts list for switchboard 1

- 1 LVS08406: framework, W = 650, D = 400, H = 2000
- 2 LVS08566: front plate frame support, W = 650
- 3 LVS08576: cover frame, W = 650
- 4 LVS08736: rear panel, W = 650 (two half panels)
- 5 LVS08750: set of two side panels, D = 400
- 6 LVS08436: plain roof, W = 650, D = 400
- 7 LVS08486: plain gland plate, W = 650, D = 400



DD385890 eps



Switchboard 1 - IP30 cubicle with cover frame, W = 650.

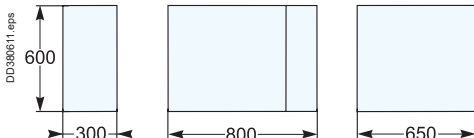
600 mm deep switchboard

For switchboards with front connections.

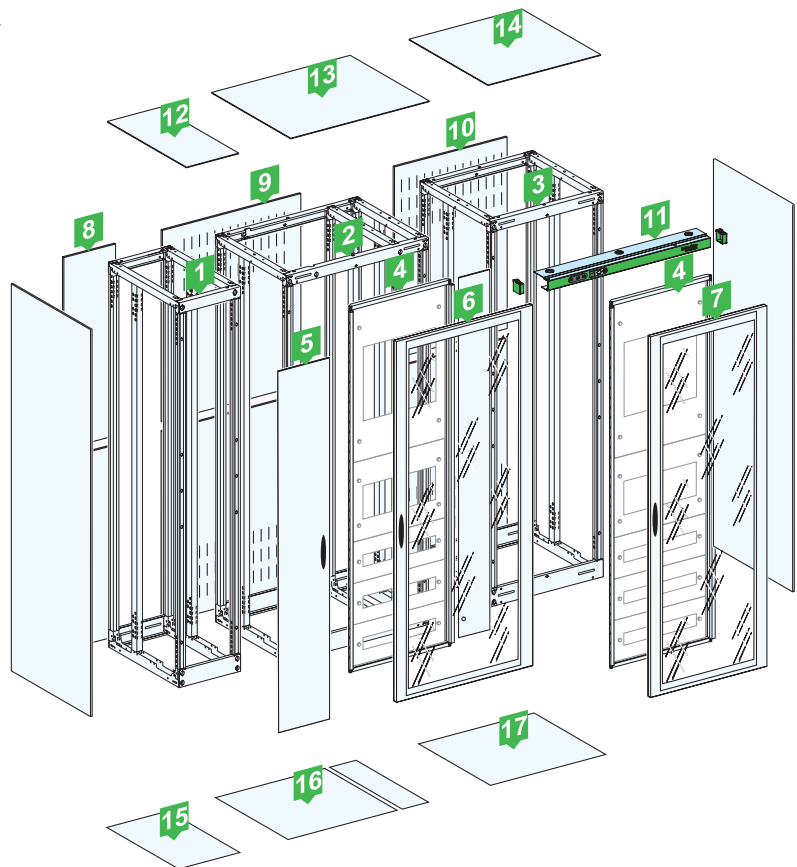
- front panels
- Any of the following can be installed in front of the hinged front plate frame support:
 - a transparent door (IP30 or IP55)
 - a plain door (IP30 or IP55)
 - a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

Parts list for switchboard 2

- 1 LVS08603: framework, W = 300, D = 600, H = 2000
- 2 LVS08607: framework, W = 800, D = 600, H = 2000
- 3 LVS08606: framework, W = 650, D = 600, H = 2000
- 4 LVS08566: front plate frame support, W = 650
- 5 LVS08513: plain door, W = 300
- 6 LVS08538: transparent door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 LVS08536: transparent door, W = 650
- 8 LVS08733: rear panel, W = 300 (two half panels)
- 9 LVS08738: rear panel, W = 800 (two half panels)
- 10 LVS08736: rear panel, W = 650 (two half panels)
- 11 LVS08760: set of two side panels, D = 600
- 12 LVS08633: plain roof, W = 300, D = 600
- 13 LVS08638: plain roof, W = 800, D = 600
- 14 LVS08636: plain roof, W = 650, D = 600
- 15 LVS08683: plain gland plate, W = 300, D = 600
- 16 LVS08687: plain gland plate, W = 800, D = 600
- 17 LVS08686: plain gland plate, W = 650, D = 600.



DD385891 eps



Switchboard 2 - combination of IP30 cubicles with transparent doors.

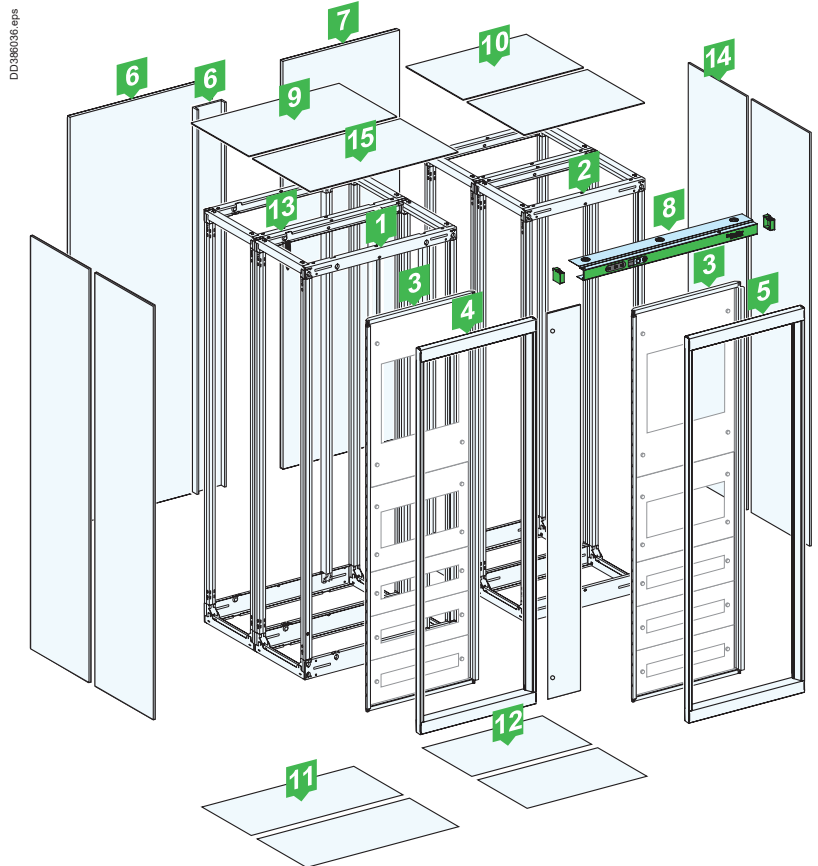
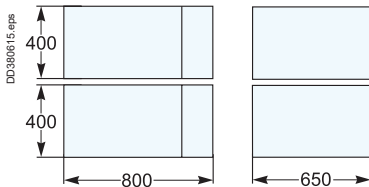
800 mm deep switchboard

Made up of two cubicles back-to-back.
Rear connections are possible.

- front panels
- Any of the following can be installed in front of the hinged front plate frame support:
 - a transparent door (IP30 or IP55)
 - a plain door (IP30 or IP55)
 - a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

Parts list for switchboard 3

- 1 LVS08407 x 2 :** 2 frameworks, W = 800, D = 400, H = 2000
- 2 LVS08406 x 2 :** 2 frameworks, W = 650, D = 400, H = 2000
- 3 LVS08566:** front plate frame support, W = 650
- 4 LVS08578:** fixed cover frame, W = 800
(supplied with a wicket door, W = 150)
- 5 LVS08576:** cover frame, W = 650
- 6 LVS08518:** plain door, W = 800
(supplied with barrier for busbar compartment, W = 150)
- 7 LVS08516:** plain door, W = 650
- 8 LVS08750 x 2 :** 2 sets of two side panels D = 400
- 9 LVS08438 x 2 :** 2 plain roofs, W = 800, D = 400
- 10 LVS08436 x 2 :** 2 plain roofs, W = 650, D = 400
- 11 LVS08487 x 2 :** 2 plain gland plate, W = 800, D = 400
- 12 LVS08486 x 2 :** 2 plain gland plate, W = 650, D = 400
- 13 LVS08719 x 2 :** double depth combination kit



Combination of IP30 cubicles with cover frames.



Cover panels

Enclosures

1000 mm deep switchboard

Made up of two cubicles back-to-back.
Rear connections are possible.

■ front panels

Any of the following can be installed in front of the hinged front plate frame support:

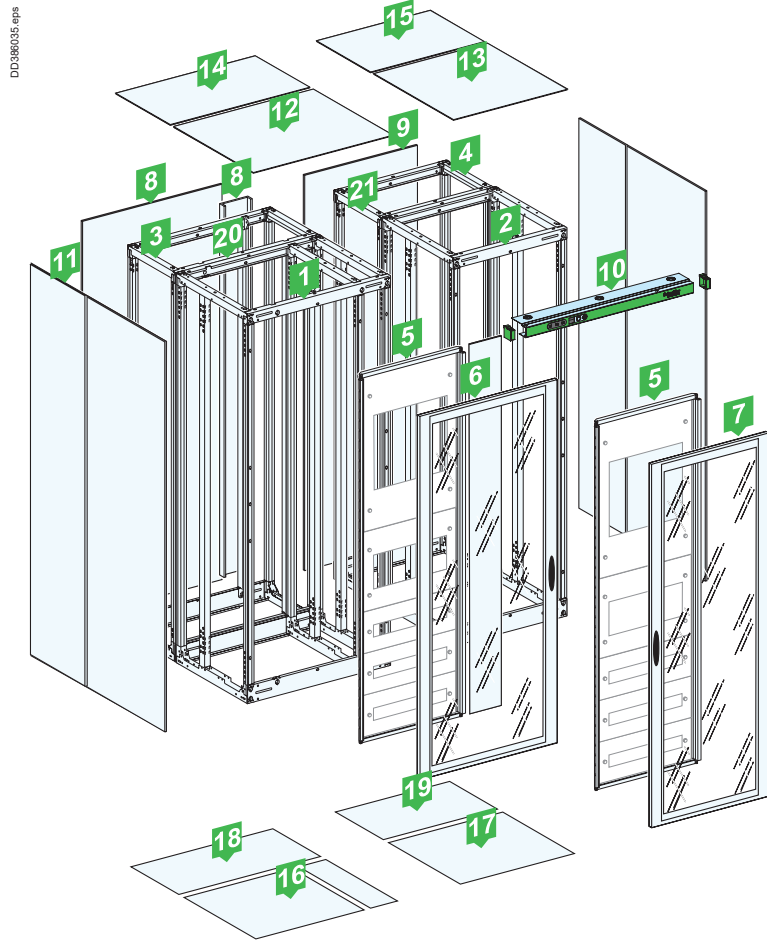
- a transparent door (IP30 or IP55)
- a plain door (IP30 or IP55)
- a fixed cover frame (IP30)
- rear panel = screw-on panel
- side panels = set of two panels
- plain roof
- gland plates (plain or in two parts).

Parts list for switchboard 4

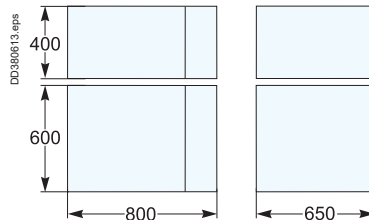
- 1 LVS08607:** framework, W = 800, D = 600, H = 2000
- 2 LVS08606:** framework, W = 650, D = 600, H = 2000
- 3 LVS08407:** framework, W = 800, D = 400, H = 2000
- 4 LVS08406:** framework, W = 650, D = 400, H = 2000
- 5 LVS08566:** front plate frame support, W = 650
- 6 LVS08538:** transparent door, W=800 (supplied with barrier for busbar compartment, W=150)
- 7 LVS08536:** transparent door, W = 650
- 8 LVS08518:** plain door, W = 800 (supplied with barrier for busbar compartment, W= 150)
- 9 LVS08516:** plain door, W = 650
- 10 LVS08760:** set of two side panels, D = 600
- 11 LVS08750:** set of two side panels, D = 400
- 12 LVS08638:** plain roof, W = 800, D = 600
- 13 LVS08636:** plain roof, W = 650, D = 600
- 14 LVS08438:** plain roof, W = 800, D = 400
- 15 LVS08436:** plain roof, W = 650, D = 400
- 16 LVS08687:** plain gland plate, W = 800, D = 600
- 17 LVS08686:** plain gland plate, W = 650, D = 600
- 18 LVS08487:** plain gland plate, W = 800, D = 400
- 19 LVS08486:** plain gland plate, W = 650, D = 400
- 20 LVS08719 x 2:** double depth combination kit

Parts list for switchboard IP55

- 1 LVS08607:** framework, W = 800, D = 600, H = 2000
- 2 LVS08606:** framework, W = 650, D = 600, H = 2000
- 3 LVS08407:** framework, W = 800, D = 400, H = 2000
- 4 LVS08406:** framework, W = 650, D = 400, H = 2000
- 5 LVS08566:** front plate frame support, W = 650
- 6 LVS08548:** transparent door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 7 LVS08546:** transparent door, W = 650
- 8 LVS08528:** plain door, W = 800 (supplied with barrier for busbar compartment, W = 150)
- 9 LVS08526:** plain door, W = 650
- 10 LVS08765:** set of two side panels, D = 600
- 11 LVS08755:** set of two side panels, D = 400
- 12 LVS08658:** plain roof, W = 800, D = 600
- 13 LVS08656:** plain roof, W = 650, D = 600
- 14 LVS08458:** plain roof, W = 800, D = 400
- 15 LVS08456:** plain roof, W = 650, D = 400
- 16 LVS08687:** plain gland plate, W = 800, D = 600
- 17 LVS08686:** plain gland plate, W = 650, D = 600
- 18 LVS08487:** plain gland plate, W = 800, D = 400
- 19 LVS08486:** plain gland plate, W = 650, D = 400
- 20 LVS08719 x 2:** double depth combination kit
- 21 LVS08717 x 2:** IP55 sealing kit for side-by-side combinations

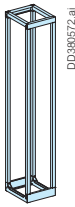
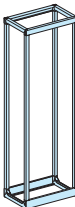
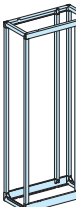
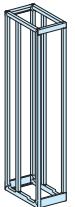
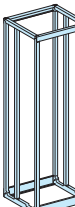
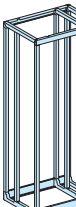




Combination of cubicles with transparent doors.



Cubicles Frameworks

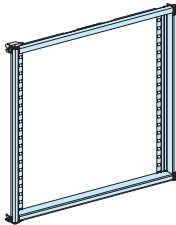
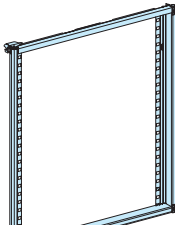
Enclosures

| Mounting | Frameworks | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|----------|----------|----------|-----------------|--|
| |  |  |  |  |  |  | | | | | |
| Width (mm) | 300 | 400 | 650 | 800 | 800 (650 + 150) | 300 | 400 | 650 | 800 | 800 (650 + 150) | |
| | Depth 400 mm | | | | | Depth 600 mm | | | | | |
| Cat. no. | LVS08403 | LVS08404 | LVS08406 | LVS08408 | LVS08407 | LVS08603 | LVS08604 | LVS08606 | LVS08608 | LVS08607 | |
| Composition | 2 frames | | | | | 3 frames | | | | | |
| | - | | | | + 2 additional uprights | equipped with intermediate uprights for the mounting plates | | | | | |
| | <ul style="list-style-type: none"> 4 cross-pieces. Mounting hardware. Framework combinations | | | | | | | | | | |
| Characteristics | <ul style="list-style-type: none"> Cubicles can be combined side-by-side and back-to-back. Can be equipped with IP30 or IP55 cover panels. <p>Note: for the 800 mm width, the busbar compartment can be on the left or right</p> | | | | | | | | | | |

| Mounting | Hinged front plate frame support | |
|-----------------|--|--|
| |  |  |
| Width (mm) | 400 | 650 |
| Cat. no. | LVS08564 | LVS08566 (1) |
| Characteristics | <ul style="list-style-type: none"> Reversible for left or right-hand opening. Secured at two points. <p>Note: can be mounted on 650 mm and 800 mm (650 + 150) wide cubicles.</p> <p>(1) For drawout MasterPacT MTZ2, hinged front plate frame support must open towards left-hand side.</p> | |

Partial hinged cover-frame supports

> page E-8.

| Mounting | Partial hinged cover-frame supports | |
|-----------------|---|---|
| |  |  |
| Width (mm) | 650 | |
| | 10 modules | 12 modules |
| Cat. no. | LVS08560 | LVS08562 |
| Characteristics | <ul style="list-style-type: none"> For drawout MasterPacT MTZ2, hinged front plate frame support must open towards left-hand side. | <ul style="list-style-type: none"> Use for Fupact ISFL configurations. For drawout MasterPacT MTZ2, when hinged front plate frame support is left-hand opening. |

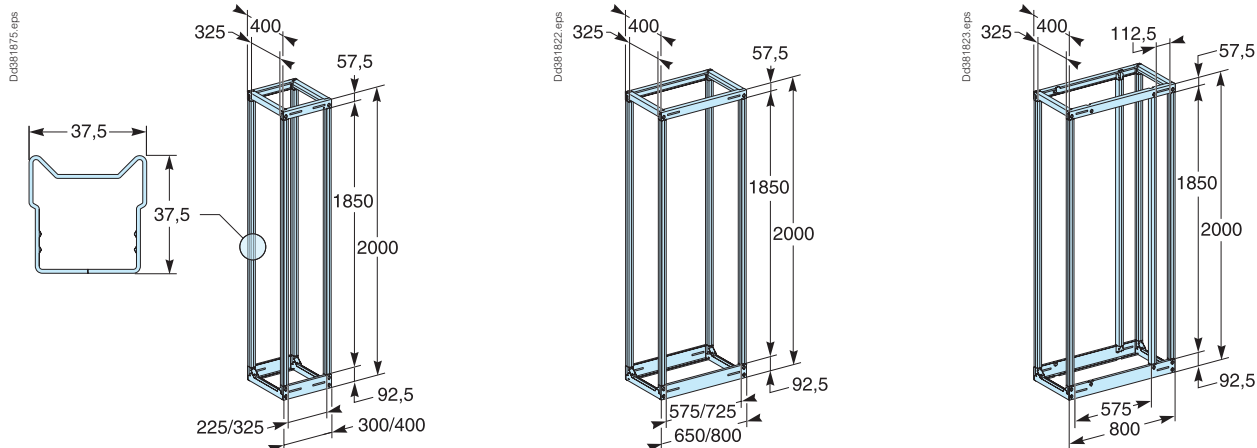
Cubicles
Frameworks

Enclosures

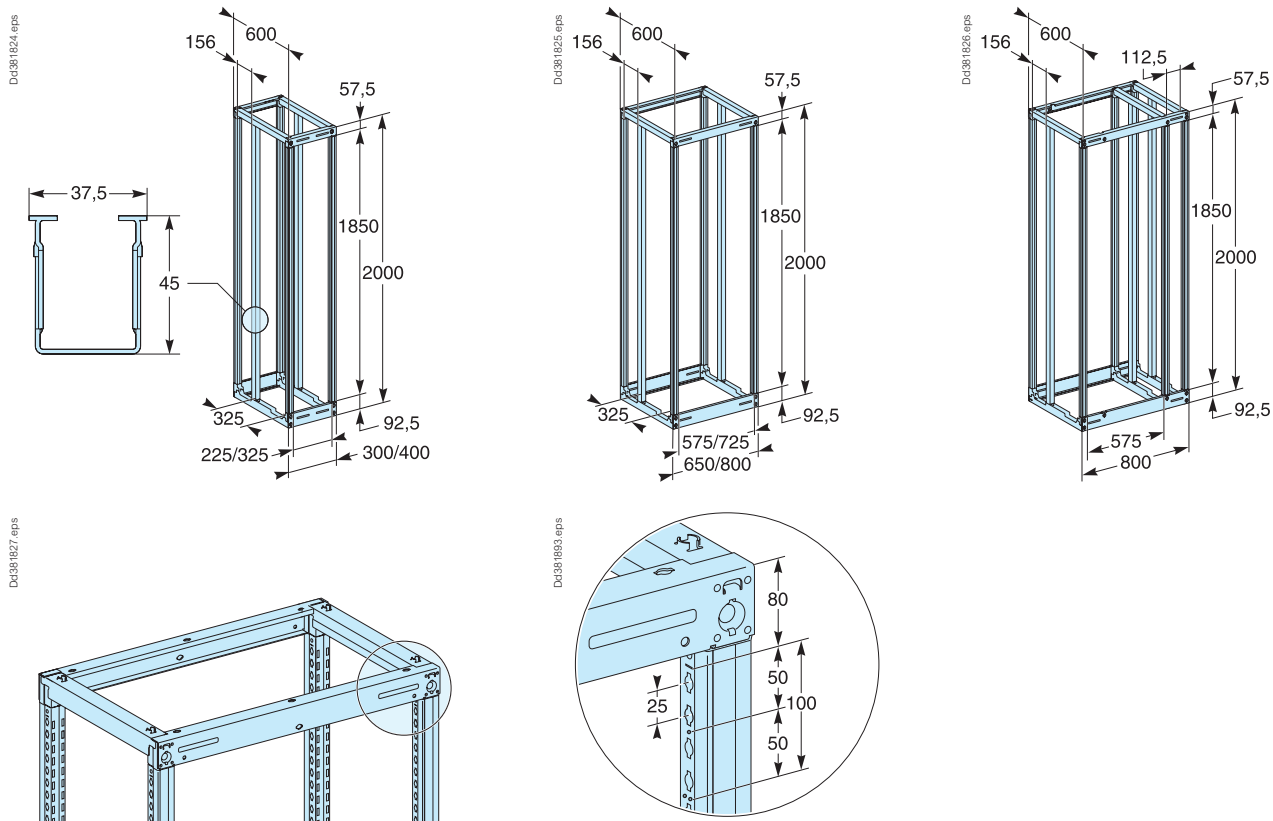
| Framework combinations | | |
|------------------------|--|--|
| | | |
| Type | Side-by-side IP55 sealing kit | Back-to-back Double depth combination kit |
| Cat. no. | LVS08717 | LVS08719 |
| Characteristics | The 650 and 800 mm wide frameworks are supplied with a combination kit comprising six M6 bolts. To maintain the IP55 degree of protection, an optional gasket must be installed between the combined cubicles. | The kit is made up of: <ul style="list-style-type: none"> ■ a set of hardware for the mechanical connections between the cross-pieces ■ six assembly plates to connect the uprights ■ the IP55 sealing kit. |

| Accessories | | |
|-----------------|--|--|
| | | |
| Type | Commodities Fixing screws and nuts | |
| Cat. no. | LVS08921 | LVS08718 |
| Characteristics | Set of 20 screws + wing nuts for framework | Set of 10 screws + combination accessories |

Frameworks, D = 400 mm



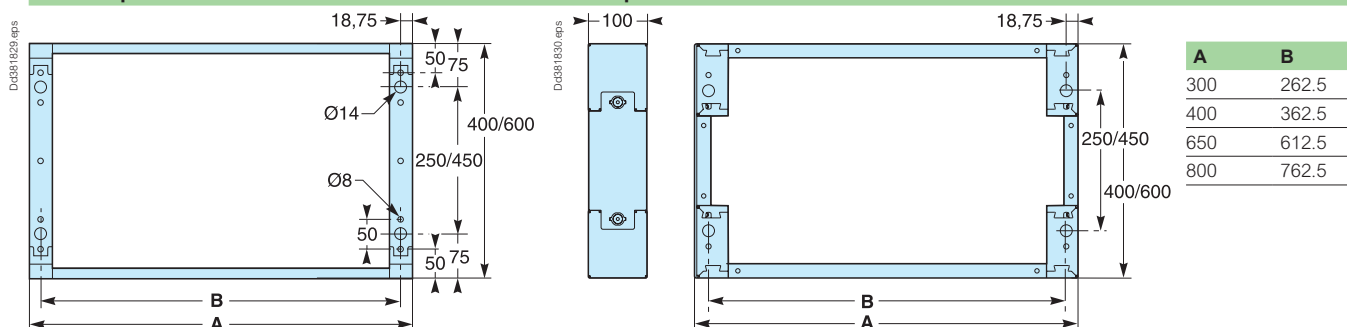
Frameworks, D = 600 mm



Fixing to floor

Without plinth

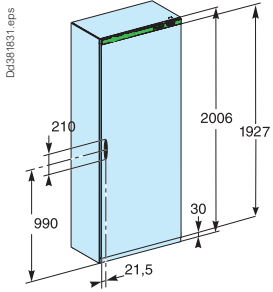
With plinth



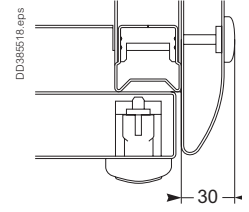
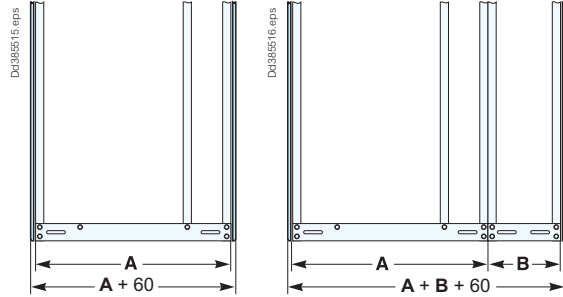
Dimensions

Cubicle with cover panels

Height

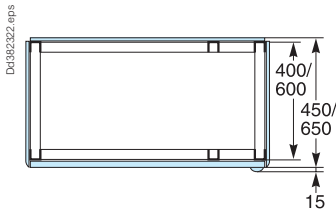


Width

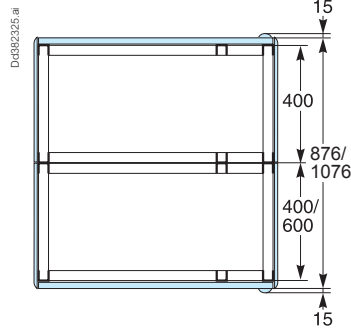
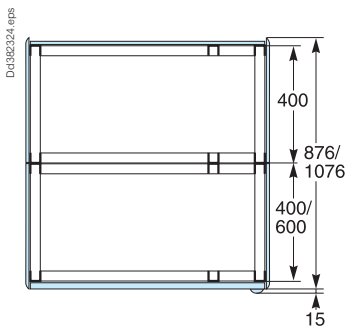
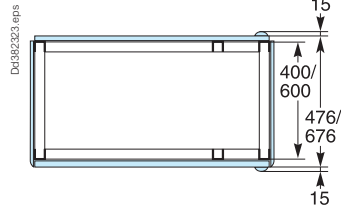


Depth

Door in front and panel in rear

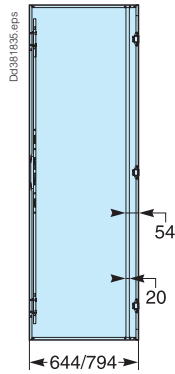
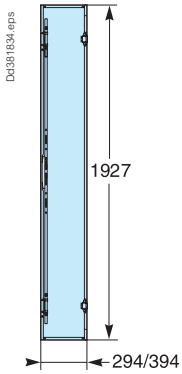


Doors front and rear

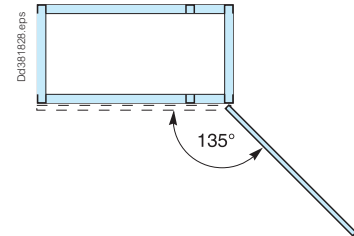
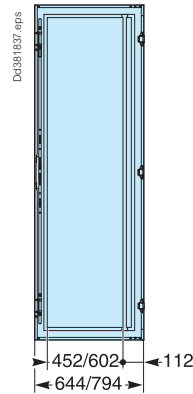
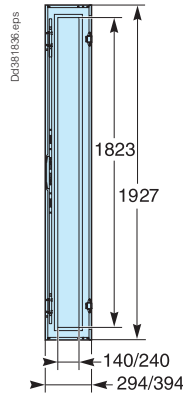


Door

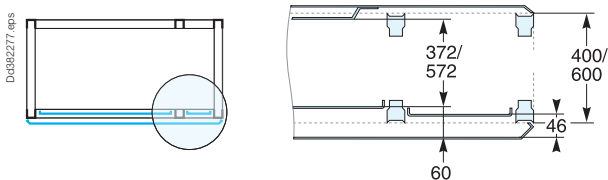
IP30 door



IP55 door

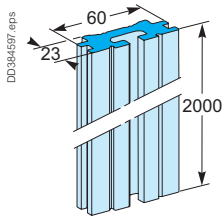


Available space behind door

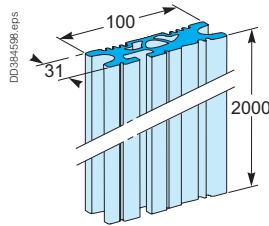


Linery LGYE busbars

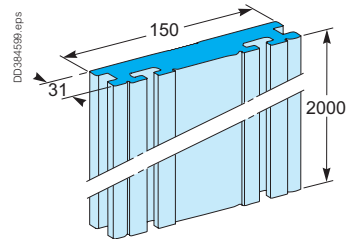
630 A - 1600 A



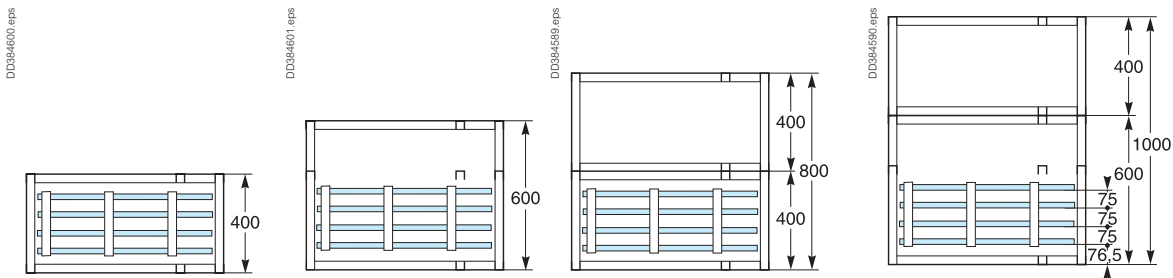
2000 A - 2500 A



3200 A - 4000 A

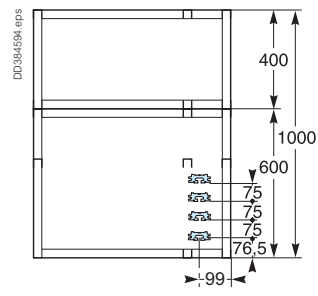
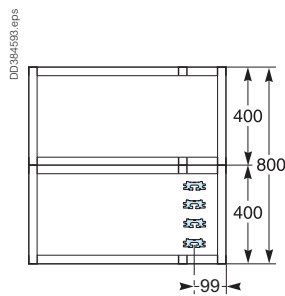
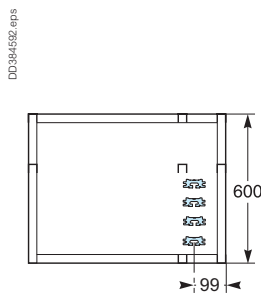
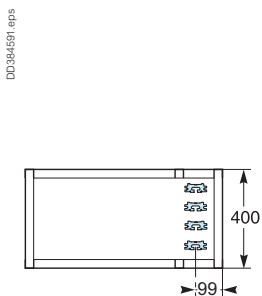


Layout of horizontal Linery LGYE busbars

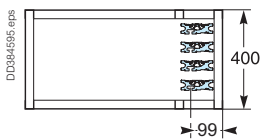


Layout of vertical Linery LGYE busbars

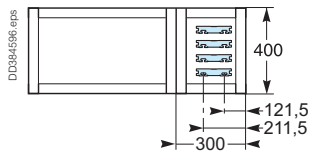
630 A - 1600 A



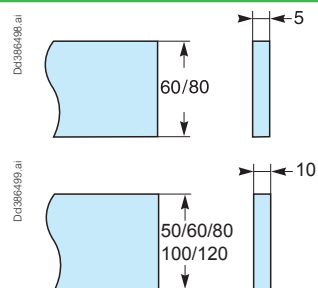
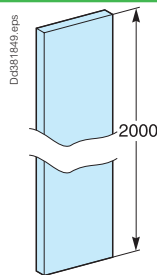
2000 A - 2500 A



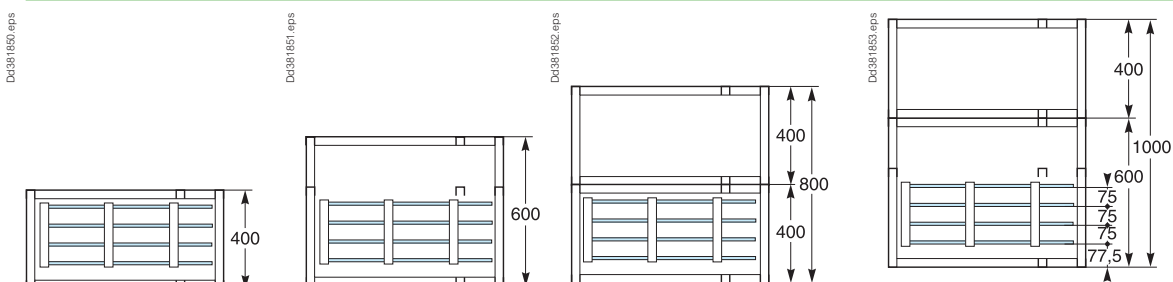
3200 A - 4000 A



Horizontal Linery BS busbars



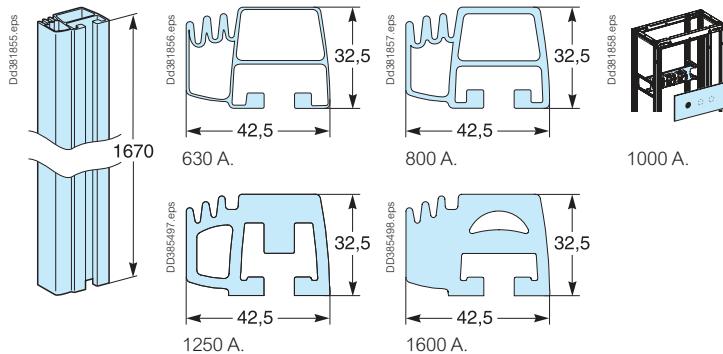
Layout of horizontal Linery BS busbars



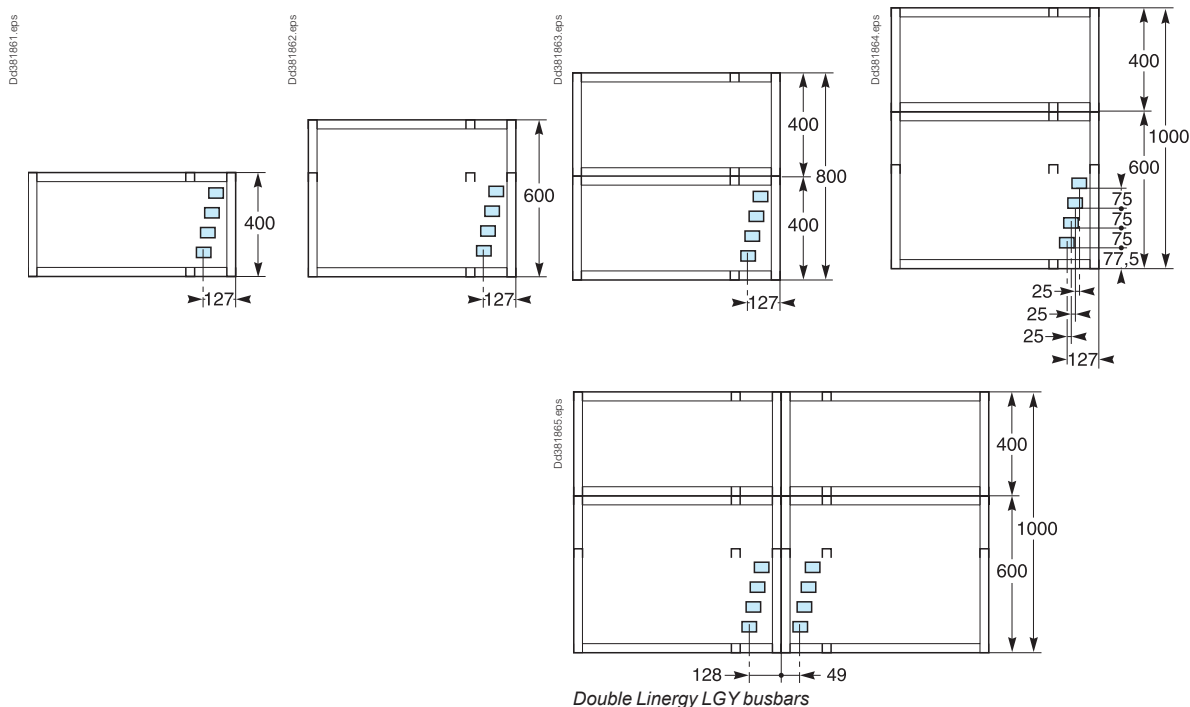
Cubicles

Dimensions

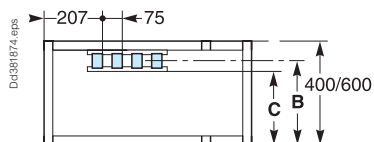
Vertical Linergy LGY busbars



Layout of Linergy LGY busbars



Layout of rear Linergy BS busbars



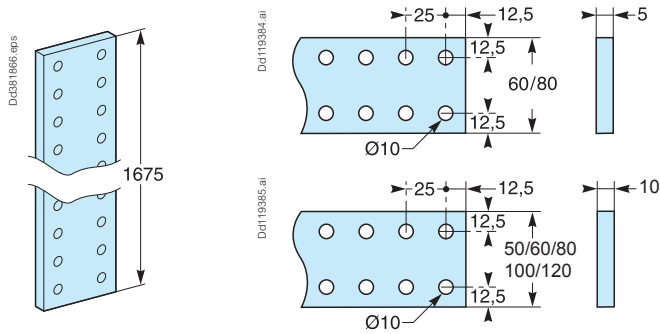
D = 400 mm **B** 284

C 242

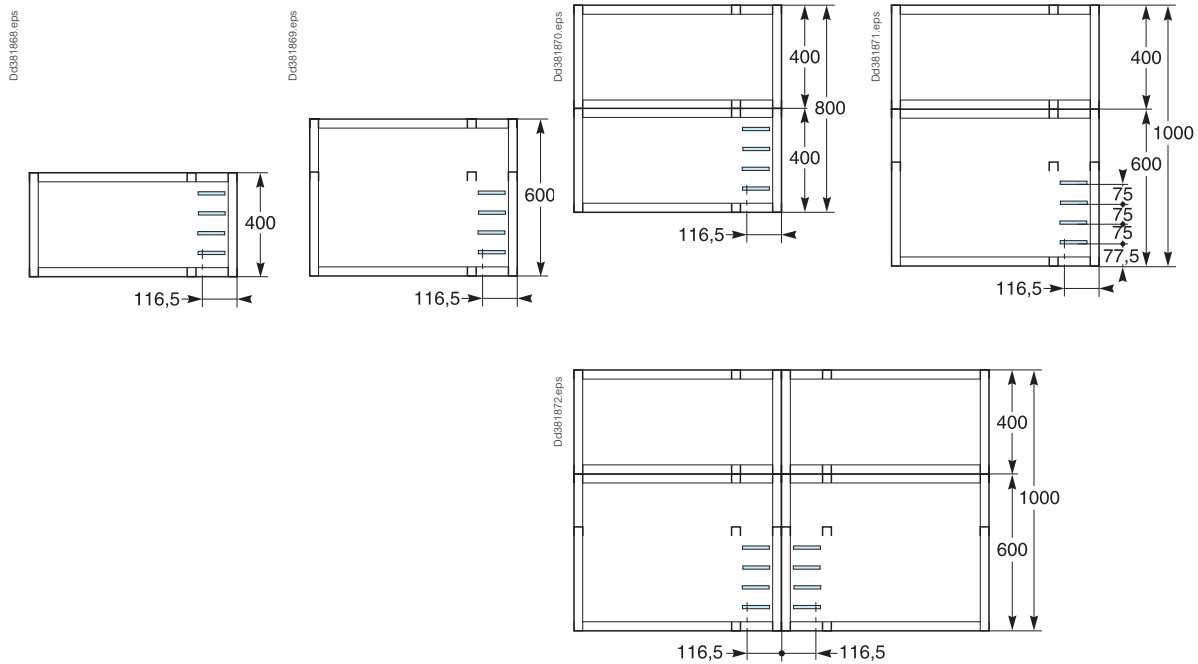
D = 600 mm **B** 484

C 442

Vertical Linergy BS busbars

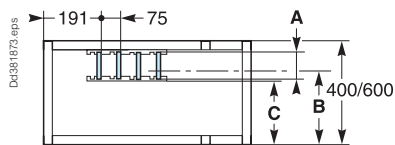


Layout of lateral Linergy BS busbars



Double Linergy BS busbars.

Layout of rear Linergy BS busbars



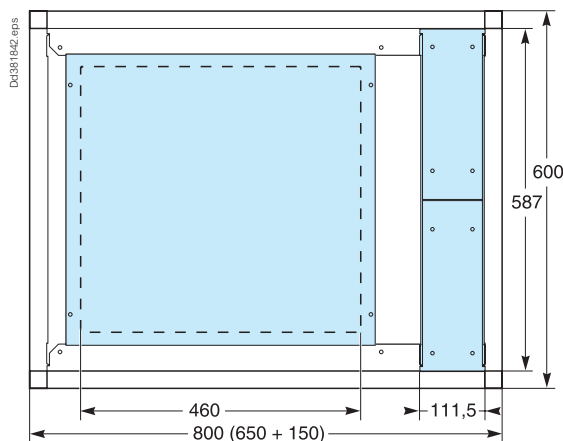
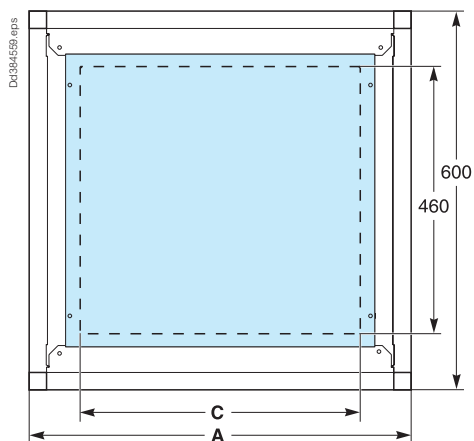
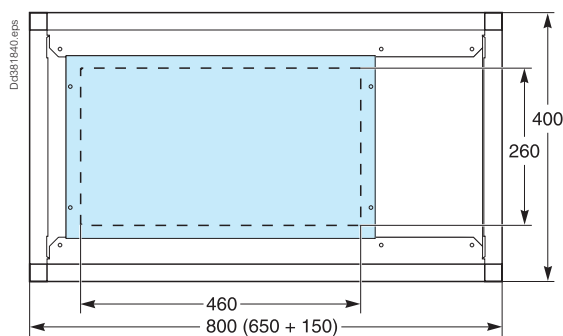
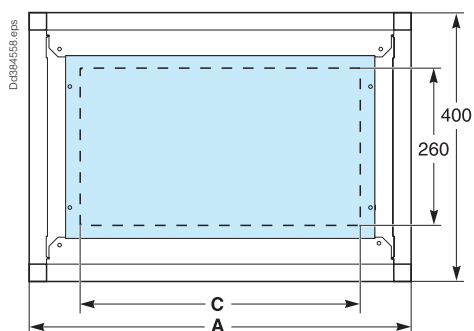
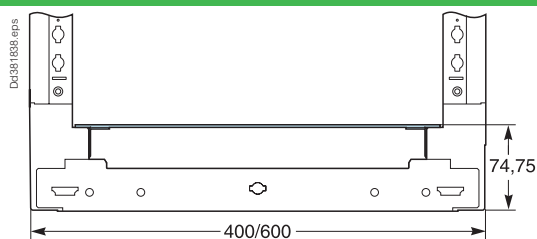
| | A | 50 | 60 | 80 |
|------------|---|-----|-----|-----|
| D = 400 mm | B | 284 | 274 | 254 |
| | C | 250 | 240 | 220 |
| D = 600 mm | B | 484 | 474 | 454 |
| | C | 450 | 440 | 420 |



Dimensions

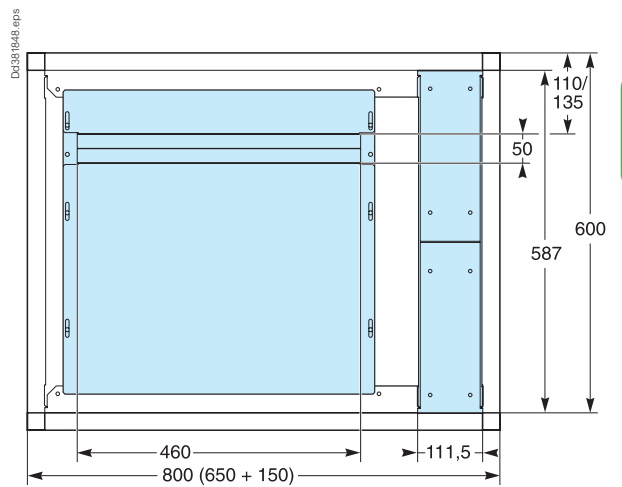
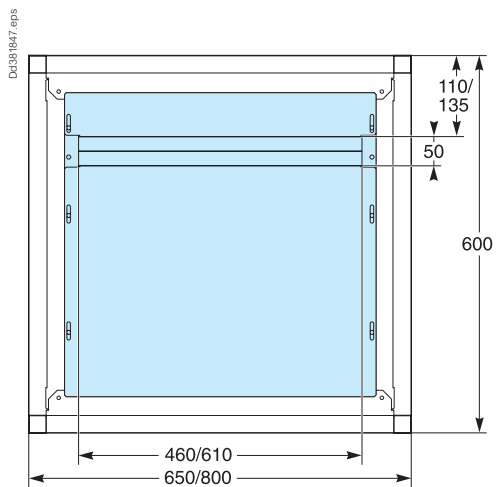
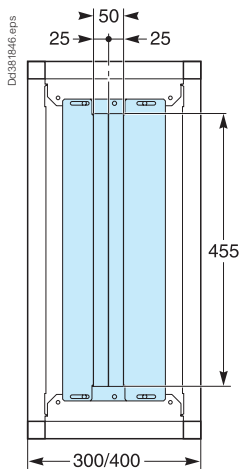
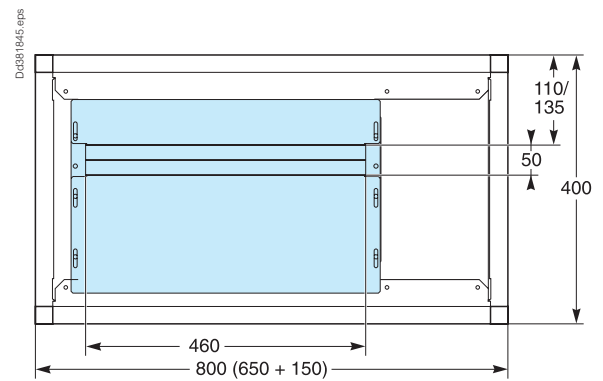
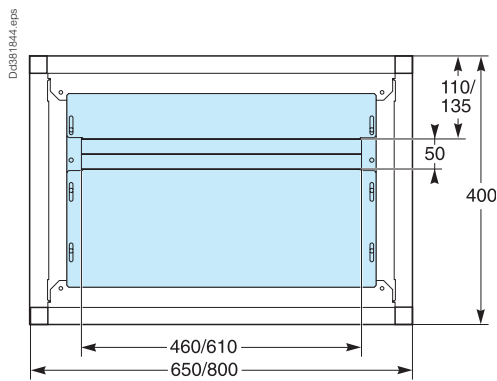
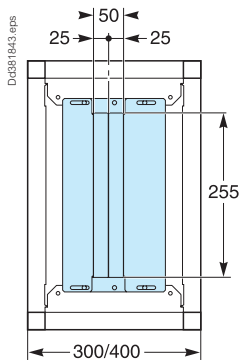
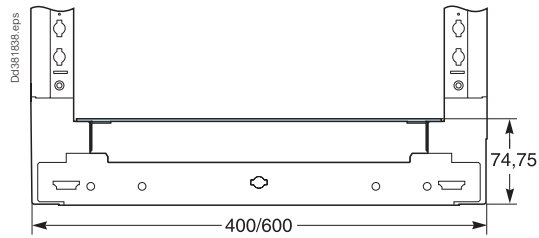
Plain gland plates

| A | C |
|-----|-----|
| 300 | 110 |
| 400 | 210 |
| 650 | 460 |
| 800 | 610 |



Dimensions

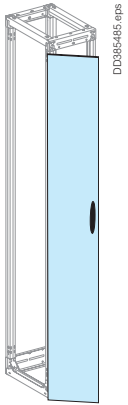
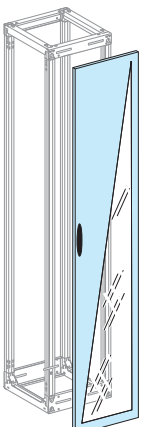
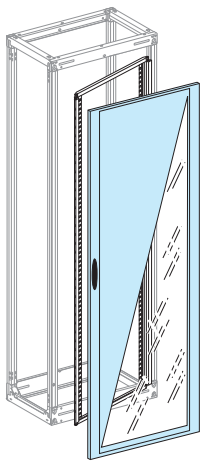
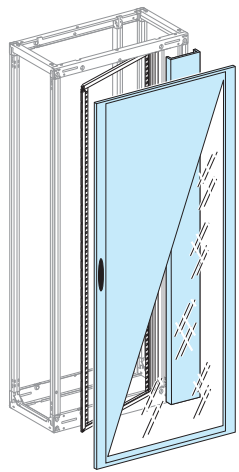
Two-part gland plates

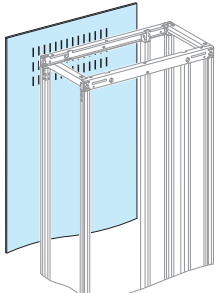

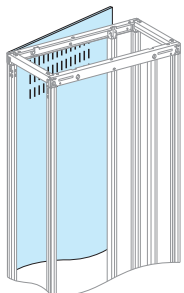



Cubicles

IP30/31 cover panels

Enclosures

| Mounting | Front doors | | | |
|------------------------|---|---|--|---|
| |  |  |  |  |
| Dimensions (mm) | W = 300 | W = 400 | W = 650 | W = 800 |
| Plain door | LVS08513 | LVS08514 | LVS08516 | LVS08518 |
| Transparent door | - | LVS08534 | LVS08536 | LVS08538 |
| Door with cut-out | LVS08593 | LVS08594 | - | - |
| Reinforced plain door | - | - | LVS01224 | LVS01225 |
| Characteristics | <ul style="list-style-type: none"> ■ Reversible for left or right-hand opening IP31. ■ Equipped with a handle and keylock (key 405). ■ Plain door is IK10 with 3 hinges. ■ Reinforced plain door is IK10 with 3 hinges. ■ Transparent door is IK10 with 3 hinges. For other possibilities > page F-29 . Note: the door with cut-out can be equipped with front plates for 72 x 72 or 96 x 96 instruments > page E-65 . The 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright. | | | |
| Cover frame | - | LVS08574 | LVS08576 | LVS08578 (1) |

| Mounting | Rear panels | | | |
|------------------------|---|---|--|---|
| |  |  |  |  |
| Dimensions (mm) | W = 300 | W = 400 | W = 650 | W = 800 |
| Rear panel | LVS08733 | LVS08734 | LVS08736 | LVS08738 |
| Characteristics | <ul style="list-style-type: none"> ■ Made up of two half panels with vents. ■ Supplied with quarter-turn fasteners. | | | |

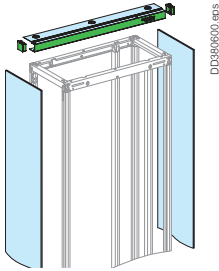
(1) For 800 mm wide frameworks, the 650 mm frame is supplied with a plain wicket door, 150 mm wide.

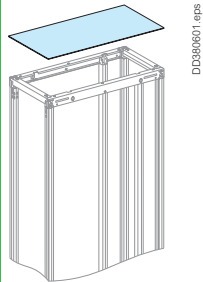
Cubicles

IP30/31 cover panels

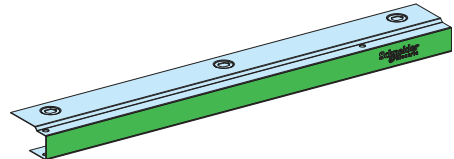
Right angle kit

Enclosures

| Mounting | Side panels | |
|-----------------|---|----------|
| |  | |
| Dimensions (mm) | D = 400 | D = 600 |
| Side panels | LVS08750 | LVS08760 |
| Characteristics | Supplied with quarter-turn fasteners. | |

| Mounting | Roof | | | |
|-----------------------|---|----------|----------|----------|
| |  | | | |
| Dimensions (mm) | W = 300 | W = 400 | W = 650 | W = 800 |
| Plain roof D = 400 mm | LVS08433 | LVS08434 | LVS08436 | LVS08438 |
| Plain roof D = 600 mm | LVS08633 | LVS08634 | LVS08636 | LVS08638 |
| Characteristics | <ul style="list-style-type: none"> ■ Supplied with quarter-turn fasteners for mounting on the framework ■ With markings for cut-outs, if necessary. | | | |
| IP31 sealing kit | LVS08711 | | | |
| Characteristics | The kit is made up of a self-adhesive gasket that attaches to the roof and a deflector. It ensures the IP31 degree of protection for a 650 or 800 mm wide cubicle, or for two cubicles (800 + 400) when they are equipped with plain or transparent front doors. | | | |

Green Cover to fix on top of each frame

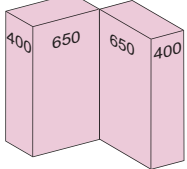
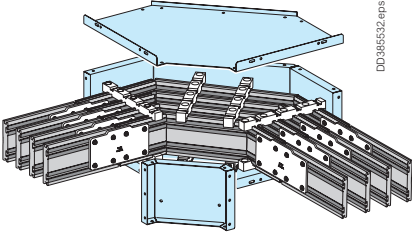
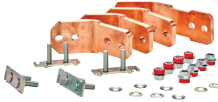
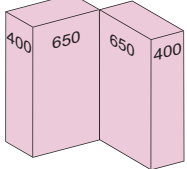
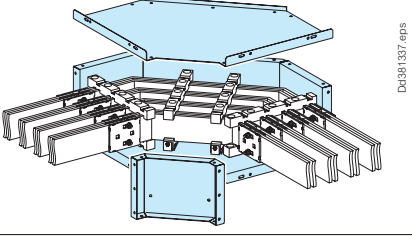
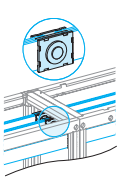
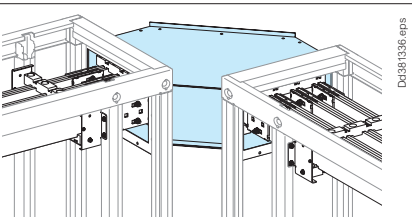
| |  | | | |
|-----------------|--|----------|----------|----------|
| Dimensions (mm) | W = 300 | W = 400 | W = 650 | W = 800 |
| | LVS08640 | LVS08641 | LVS08642 | LVS08643 |
| Characteristics | To cover the top of each section which does not have Voltage Presence Indicator. | | | |



Cubicles

IP30/31 cover panels

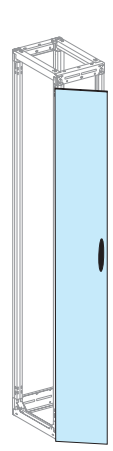
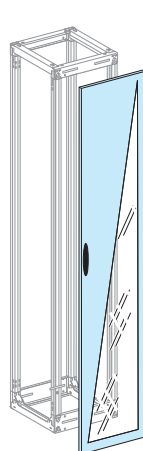
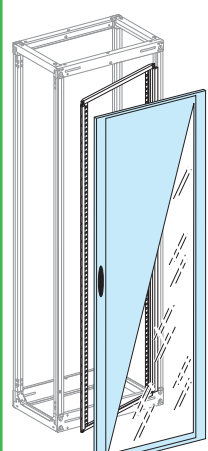
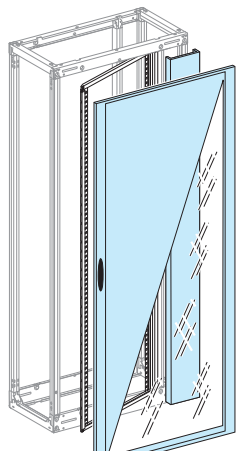
Right angle kit

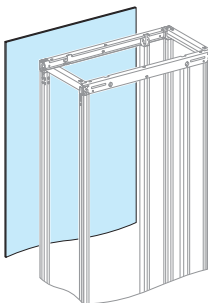

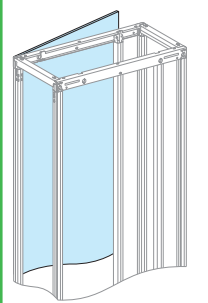

| kit IP30 for Linergy LGYE | Right-angle | Fish plates kit | | | | | | |
|---|---|---|---------------------|----------------------|---------------------|---------------------|---------------------|---------------------|
|  |  |  | | | | | | |
| cat. number | LVS08712 | <table border="1"> <tr> <td data-bbox="954 577 1114 604">630-1600 A</td> <td data-bbox="1114 577 1281 604">2000-2500 A</td> <td data-bbox="1281 577 1449 604">3200-4000 A</td> </tr> <tr> <td data-bbox="954 604 1114 633">2 x LVS04610</td> <td data-bbox="1114 604 1281 633">2 x LVS04611</td> <td data-bbox="1281 604 1449 633">2 x LVS04613</td> </tr> </table> | 630-1600 A | 2000-2500 A | 3200-4000 A | 2 x LVS04610 | 2 x LVS04611 | 2 x LVS04613 |
| 630-1600 A | 2000-2500 A | 3200-4000 A | | | | | | |
| 2 x LVS04610 | 2 x LVS04611 | 2 x LVS04613 | | | | | | |
| Characteristics | <ul style="list-style-type: none"> ■ Metal duct with busbar supports ■ Used to create and protect the connection of horizontal busbars between two cubicles installed at right angles. ■ This kit needs a Linergy LGYE busbar of 1080 mm length. | <ul style="list-style-type: none"> ■ Order the additional joint kit, comprising the 4 copper connections and mounting hardware: | | | | | | |
| kit IP30 for Linergy BS | Right-angle | Fish plates kit | | | | | | |
|  |  |  | | | | | | |
| cat. number | LVS08713 | <table border="1"> <tr> <td data-bbox="954 1019 1197 1046">bars H 50/60</td> <td data-bbox="1197 1019 1449 1046">bars H 80/100</td> </tr> <tr> <td data-bbox="954 1046 1197 1075">2 x LVS04640</td> <td data-bbox="1197 1046 1449 1075">2 x LVS04641</td> </tr> </table> | bars H 50/60 | bars H 80/100 | 2 x LVS04640 | 2 x LVS04641 | | |
| bars H 50/60 | bars H 80/100 | | | | | | | |
| 2 x LVS04640 | 2 x LVS04641 | | | | | | | |
| Characteristics | <ul style="list-style-type: none"> ■ Metal duct ■ Used to create and protect the connection of horizontal busbars between two cubicles installed at right angles. | <p>Order:</p> <ul style="list-style-type: none"> ■ fixed support 2 x LVS04664 (if 100 x 10 bar, add 2 x LVS04671) ■ free support 2 x LVS04662 (if 100 x 10 bar, add 2 x LVS04671) | | | | | | |
| |  | | | | | | | |

Cubicles

IP55 cover panels

Enclosures

| Mounting | Front doors | | | |
|------------------------|---|---|--|---|
| |  DD095485.eps |  DD119380.ai |  DD119388.ai |  DD119388.ai |
| Dimensions (mm) | W = 300 | W = 400 | W = 650 | W = 800 |
| Plain door | LVS08523 | LVS08524 | LVS08526 | LVS08528 |
| Transparent door | | LVS08544 | LVS08546 | LVS08548 |
| Characteristics | <ul style="list-style-type: none"> ■ Equipped with a factory-mounted polyurethane (PUR) gasket, IP55. ■ Reversible for left or right-hand opening ■ Equipped with a handle and keylock (key 405). For other possibilities > page F-29 . For IP55 rated configurations, front or rear mounted doors, it is necessary to follow the temperature derating tables, to ensure a convenient installation of devices. Note: the 800 mm door is supplied with a 150 mm barrier for the side compartment, plus a finishing accessory to improve the appearance of the upright. | | | |

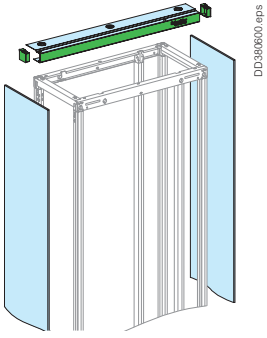
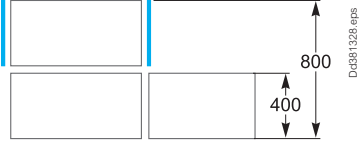
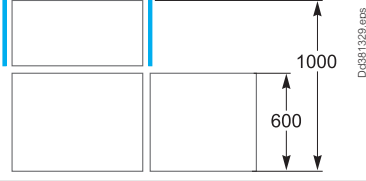
| Mounting | Rear panels | | | |
|------------------------|---|---|---|---|
| |  DD095487.eps |  |  DD095488.eps |  |
| Dimensions (mm) | W = 300 | W = 400 | W = 650 | W = 800 |
| Rear panel | LVS08743 | LVS08744 | LVS08746 | LVS08748 |
| Characteristics | <ul style="list-style-type: none"> ■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Supplied with mounting hardware. ■ One-piece, reinforced panel designed to ensure the degree of protection. | | | |

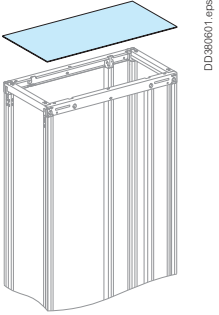


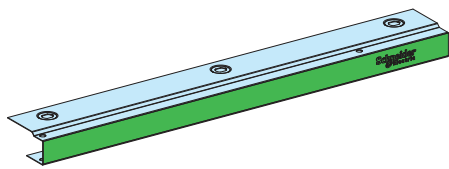
Cubicles

IP55 cover panels

Enclosures

| Mounting | Side panels | |
|----------------------------------|---|---|
| |  | |
| Dimensions (mm) | D = 400 | D = 600 |
| Side panels | LVS08755 | LVS08765 |
| Characteristics | <ul style="list-style-type: none"> ■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Supplied with mounting hardware. | |
| Side panels for "L" combinations | LVS08756 | - |
| Characteristics | Left or right combinations of two cubicles with different depths (400 + 400 or 400 + 600). These panels simply replace the standard side panels. | |
| |  |  |

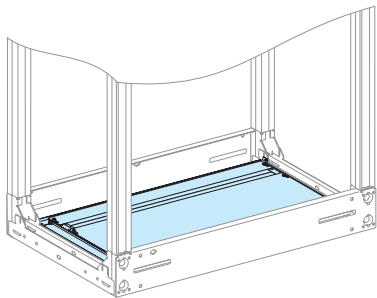
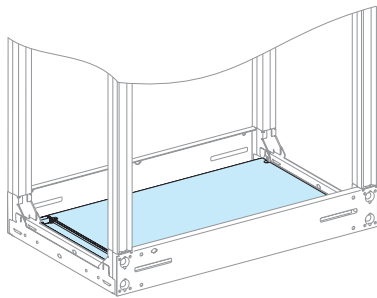
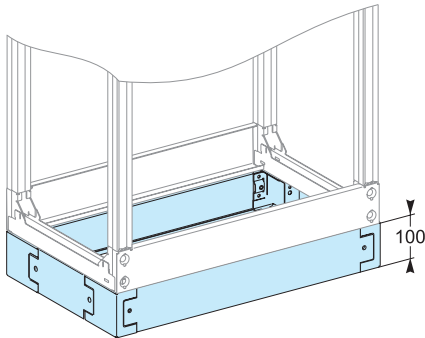
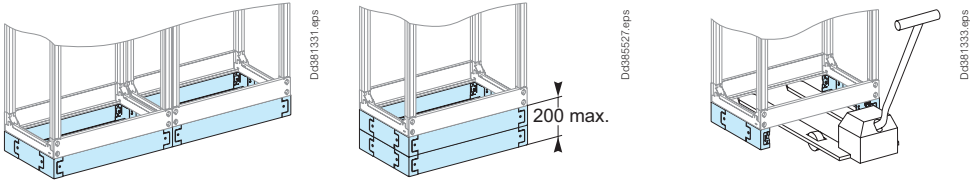
| Mounting | Roof | | | |
|------------------------|---|-----------------|-----------------|-----------------|
| |  | | | |
| Dimensions (mm) | W = 300 | W = 400 | W = 650 | W = 800 |
| Plain roof D = 400 mm | LVS08453 | LVS08454 | LVS08456 | LVS08458 |
| Plain roof D = 600 mm | LVS08653 | LVS08654 | LVS08656 | LVS08658 |
| Characteristics | <ul style="list-style-type: none"> ■ Equipped with a factory-mounted polyurethane (PUR) gasket ■ Supplied with mounting hardware. ■ With markings for clear identification of cable-running zones, if necessary. | | | |

| Green Cover to fix on top of each frame | | | | |
|---|---|-----------------|-----------------|-----------------|
| |  | | | |
| Dimensions (mm) | W = 300 | W = 400 | W = 650 | W = 800 |
| | LVS08640 | LVS08641 | LVS08642 | LVS08643 |
| Characteristics | To cover the top of each section which does not have Voltage Presence Indicator. | | | |

Cubicles

Plinth

Enclosures

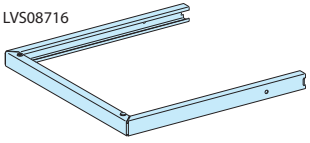

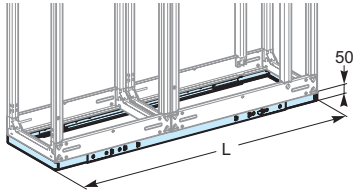

| Mounting | Two-part gland plates | | IP55, gland plates | | | |
|---|---|----------------|--|----------------|----------------|----------------|
| |  | |  | | | |
| Degree of protection | IP30/IP31 | | IP55 | | | |
| Dimensions (in mm) | D400 | D600 | D400 | D600 | | |
| W = 300 mm | LVS08493 | LVS08693 | LVS08483 | LVS08683 | | |
| W = 400 mm | LVS08494 | LVS08694 | LVS08484 | LVS08684 | | |
| W = 650 mm | LVS08496 | LVS08696 | LVS08486 | LVS08686 | | |
| W = 800 mm (650 + 150) | LVS08497 | LVS08697 | LVS08487 | LVS08687 | | |
| W = 800 mm | LVS08498 | LVS08698 | LVS08488 | LVS08688 | | |
| Mounting | Plinth H = 100 mm | | | | | |
| |  | | | | | |
| Dimensions (mm) | W = 300 | W = 400 | W = 650 | W = 800 | D = 400 | D = 600 |
| Four corner posts + two cross-pieces (front and rear) | LVS08723 | LVS08724 | LVS08726 | LVS08728 | - | - |
| Two side plates | - | - | - | - | LVS08720 | LVS08721 |
| Characteristics | The plinth is made up of two Catalog numbers: <ul style="list-style-type: none"> ■ one Catalog number comprising four corner posts + two cross-pieces (front and rear), that can be used in side-by-side combinations or stacked to form a plinth 200 mm high (maximum) ■ one Catalog number comprising two side plates (400 or 600 mm). Each Catalog number is supplied with the necessary hardware. | | | | | |
| Examples |  <p>Side-by-side combination of two cubicles with a plinth. Two stacked plinths. The front and rear cross-pieces can be easily removed for a pallet-mover.</p> | | | | | |

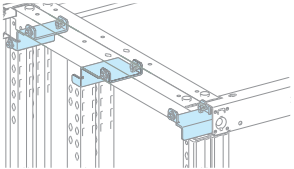
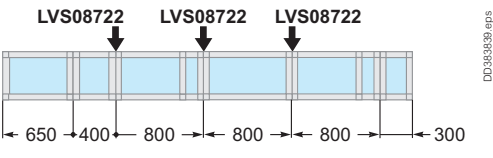



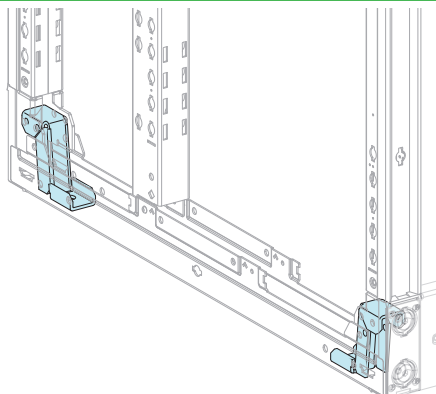

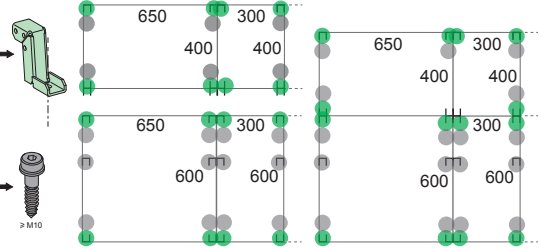
Cubicles

Cubicle handling and Lifting reinforcement kit

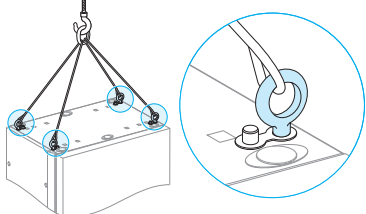
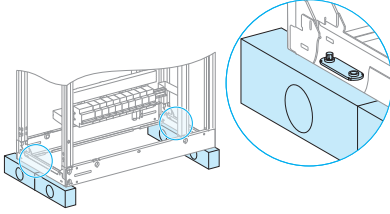
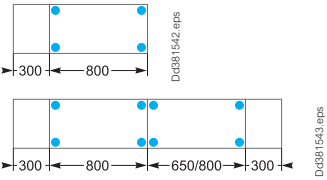
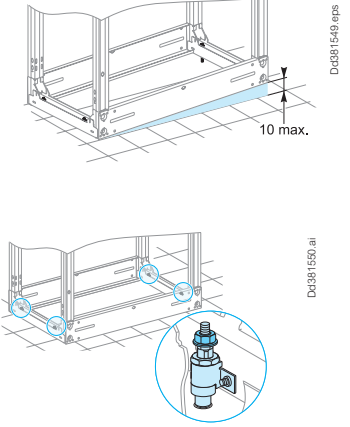
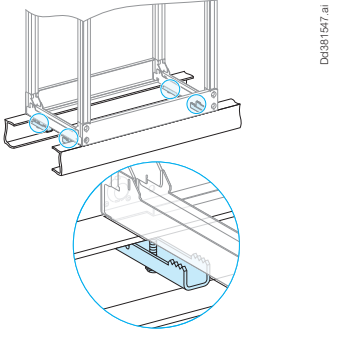
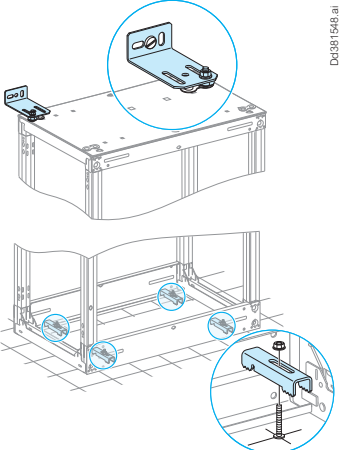
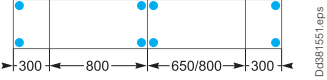
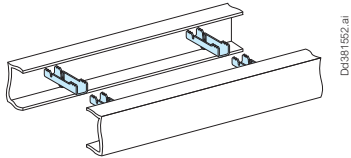
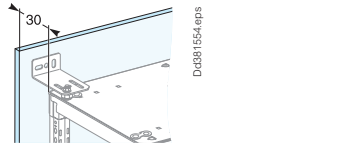
Enclosures

| Mounting | | Cubicle handling and rolling base | | | |
|------------------------------------|--|---|--|---|-----------------------|
| |  |  |  |  | |
| Dimensions (mm) | D = 400 | D = 600 | L1200 to L1900 | L2000 to L2550 | L2650 to L3050 |
| 2 cubicle handling base end-pieces | LVS08714 | LVS08716 | - | - | - |
| Cubicle handling | - | - | - | LVS08706 | - |
| Characteristics | This type of base is designed to avoid any risk of cubicle deformation during transport and handling. Five different Catalog numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles. <ul style="list-style-type: none"> ■ Two Catalog numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware. ■ Three Catalog numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware. Handling bases can be used for both side-by-side and back-to-back cubicle combinations. In this case, the mounting hardware for one of the sets is used. | | | | |

| Mounting | | Lifting reinforcement kit | |
|---------------------------|---|---|---|
| |  |  |  |
| Dimensions (mm) | D = 400, D = 600 | | |
| Lifting reinforcement kit | LVS08722 | | |
| Characteristics | Kit LVS08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces LVS08714 or LVS08716 for severe transport or handling conditions. Catalog number LVS08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware. | | |

| Mounting | | Seismic Kit | |
|-----------------------|--|---|--|
| |  |  |  |
| Reinforcement bracket | LVS08710 | | |
| Characteristics | Catalog number ref LVS08710 includes 1 reinforcement bracket and 4 M6 screws. <ul style="list-style-type: none"> ■ Plinths are not allowed with seismic kits. | | |

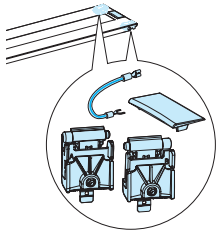
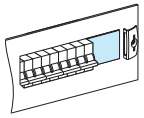
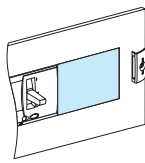
| Type of cubicle | W300 | | W400 | | W650 | | W650 + W150 | |
|---|---------------------|---|---------------------|---|---------------------|-----------------|---|-----------------|
| | D = 400 | D = 600 | D = 400 | D = 600 | D = 400 | D = 600 | D = 400 | D = 600 |
| Framework | LVS08403 | LVS08603 | LVS08404 | LVS08604 | LVS08406 | LVS08606 | LVS08407 | LVS08607 |
| Reinforcement bracket | LVS08710 x 4 | | | | LVS08710 x 4 | | LVS08710 x 6 | |
| Longitudinal cross men | LVS08773 | | LVS08774 | | LVS03587 x 2 | | | |
| Lateral cross member | LVS03584 x 2 | LVS03584 x 2 + LVS03586 x 2 | LVS03584 x 2 | LVS03584 x 2 + LVS03586 x 2 | LVS03584 x 2 | | LVS03584 x 2 + LVS03586 x 2 | |
| M10 screw (not supplied) | 4 | 6 | 4 | 6 | 4 | | 6 | |
| Side panels IP55 mandatory for IP30 and IP55 configurations | LVS08755 | LVS08765 | LVS08755 | LVS08765 | LVS08755 | LVS08765 | LVS08755 | LVS08765 |

| Mounting | Lifting rings | Framework stabiliser kit | |
|-----------------|--|--|---|
| |  <p style="text-align: right; font-size: small;">Dd3811541.ai</p> |  <p style="text-align: right; font-size: small;">Dd381546.ai</p> | |
| Cat. no. | LVS08700 | LVS08701 | |
| Characteristics | <ul style="list-style-type: none"> ■ Set of four lifting rings screwed to the framework. ■ Use a set of lifting rings for each framework (W = 650 and 800 mm) containing devices. ■ When two cubicles with devices have been combined, use a lifting beam. ■ can be installed and removed without removing the roof ■ even if they are left attached, the switchboard conserves its original degree of protection.  <p style="text-align: right; font-size: x-small;">Dd3811542.eps Dd3811543.eps</p> <p>Positions of the lifting rings for two combined cubicles containing devices. In this case, a lifting beam must be used.</p> | <ul style="list-style-type: none"> ■ Made up of four blocks under the framework ■ Suitable for all types of cubicles, whatever the width and depth ■ Increases the stability of the cubicle during mounting of devices ■ Makes possible cubicle handling using a pallet mover or a forklift ■ Protects the front, side and rear cover panels during handling ■ Can be reused. | |
| Mounting | Levelling kit | False floor fixing kit | Floor/wall fixing kit |
| |  <p style="text-align: right; font-size: small;">Dd3811549.eps Dd3811550.ai</p> |  <p style="text-align: right; font-size: small;">Dd3811547.ai</p> |  <p style="text-align: right; font-size: small;">Dd3811548.ai Dd3811553.ai</p> |
| Cat. no. | LVS08702 | LVS08703 | LVS08704 |
| Characteristics | <ul style="list-style-type: none"> ■ Set of 4 fixtures ■ can be installed at any time, even when the cubicle is already in position ■ maximum adjustment range = 10 mm ■ secures the cubicle to the floor.  <p style="text-align: right; font-size: x-small;">Dd3811551.eps</p> <p>Recommended positions of the fixtures for combined cubicles.</p> | <ul style="list-style-type: none"> ■ Made up of four independent clamps ■ clamp on: <ul style="list-style-type: none"> □ "U" sections: H = 175 mm, W = 70 mm □ "I" sections: H = 120 mm, W = 64 mm ■ clamp travel = 11 mm.  <p style="text-align: right; font-size: x-small;">Dd3811552.ai</p> | <ul style="list-style-type: none"> ■ Made up of two brackets and four clamps ■ can be used to offset the switchboard fixing points for easier access ■ the wall brackets ensure sufficient wall clearance (at least 30 mm) for natural convection.  <p style="text-align: right; font-size: x-small;">Dd3811554.eps</p> |



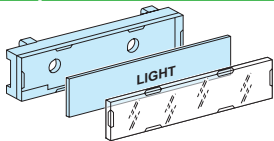
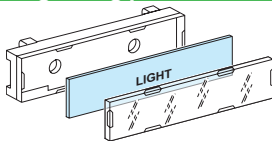
Front plate accessories, blanking plates

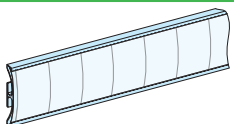
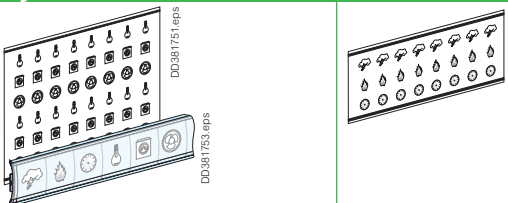
Enclosures

| Used for | Front plate hinge kit | Blanking plates | | | |
|-----------------|---|---|---|--|--|
| |  |  |  | | |
| Cat. no. | LVS08585 (1) | For modular devices | | For ComPact NSX100/250 | |
| Characteristics | <ul style="list-style-type: none"> Set of 2 hinges 1 earthing braid | LVS03220 | LVS03221 | LVS03249 | LVS03222 |
| | | <ul style="list-style-type: none"> Strip H = 46 mm, L = 1 m | <ul style="list-style-type: none"> Divisible Set of 4 H = 46 mm, L = 90 mm White RAL 9003 | <ul style="list-style-type: none"> Divisible H = 85 mm, L = 147 mm Blanc RAL 9003 | <ul style="list-style-type: none"> Divisible + electronic trip unit |





(1) With a power voltage > SELV (12 V), devices on front plates must be mounted with a front plate hinge kit (cat no. LVS08585). The earthing braid must be connected to the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else).
With a power voltage > SELV (12 V) and a supply protection > 16 A, in addition to the preceding rule, the front plate frame support (cat no. LVS08566, LVS08564, LVS08560, LVS08562 or else) must be connected to the cubicle frame, using an earthing braid (cat no. LVS08910 or LVS08911). (standard NF / EN 61439-1 2011 edition).

Identification labels

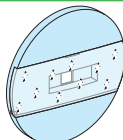
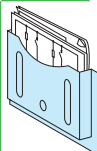
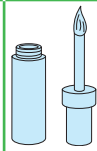
| Used for | Clip-on labels | | | Engraving plates | | |
|-----------------|--|-----------------|-----------------|--|-----------------|-----------------|
| |  | | |  | | |
| Cat. no. | LVS08913 | LVS08915 | LVS08917 | LVS08914 | LVS08916 | LVS08918 |
| Dimensions (mm) | 18 x 35 | 18 x 72 | 25 x 85 | 18 x 35 | 18 x 72 | 25 x 85 |
| Characteristics | <ul style="list-style-type: none"> Set of 12. The clip-on support is supplied with a paper label and a transparent cover. It clips onto the front plate horizontally or vertically and can be screwed to any support (plain door, plain front plate, etc.). | | | <ul style="list-style-type: none"> Set of 12. Simply replace the paper labels. | | |

| Used for | Adhesive labels | | | | Symbol sheets | |
|-----------------|--|-----------------|-----------------|-----------------|---|--|
| |  | | | |  | |
| Cat. no. | LVS08905 | LVS08906 | LVS08903 | LVS08904 | 13735 | |
| Dimensions (mm) | 24 x 180 | 36 x 180 | 24 x 432 | 36 x 432 | 13736 | |
| Characteristics | <ul style="list-style-type: none"> Set of 12. The adhesive label holders are supplied with a paper label and a transparent cover | | | | <ul style="list-style-type: none"> Set of ten symbol sheets. Standard symbols: <ul style="list-style-type: none"> loads: sockets, lights, heating units, etc. rooms: bedroom, bathroom, etc. | |
| | | | | | <ul style="list-style-type: none"> Set of ten symbol sheets Special symbols: <ul style="list-style-type: none"> loads: lightning arrester, gate, swimming pool, etc. rooms: technical room, computer room, etc | |

Adhesive labels for mimic diagrams

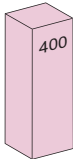
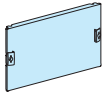
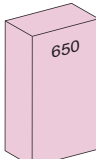

| Used for | Lines | Outgoing arrows | Incoming arrows | Transformers |
|-----------------|--|--|--|--|
| |  x 10 |  x 10 |  x 10 |  x 10 |
| Cat. no. | LVS01005 | LVS01006 | LVS01007 | LVS01008 |
| Characteristics | 900 mm long and 7 mm thick Set of 10 | | | |

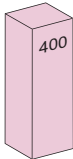
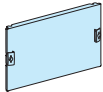
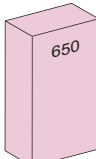
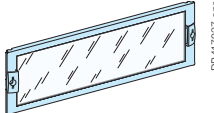
Accessories

| Used for | Switchboard identification plate | Drawing holder | Touch-up accessories |
|-----------------|---|---|---|
| |  |  |  |
| Cat. no. | LVS08900 | LVS08963 | LVS08961 |
| Characteristics | Color: RAL 9003 | Color: RAL 9003 | Color: RAL 9003 |

Reserve space

Others

| Reserve space | | | | | | | | |
|--|---|------------|------------|------------|------------|------------|------------|------------|
|  |  | | | | | | | |
| | Plain front plate W = 250 mm | | | | | | | |
| | H = 50 mm | H = 100 mm | H = 150 mm | H = 200 mm | H = 250 mm | H = 300 mm | H = 450 mm | H = 600 mm |
| [No. of vertical mod.] | [1] | [2] | [3] | [4] | [5] | [6] | [9] | [13] |
| Catalog number | LVS03811 | LVS03812 | LVS03813 | LVS03814 | LVS03815 | LVS03816 | LVS03817 | LVS03722 |
|  |  | | | | | | | |
| | Transparent front plate W = 250 mm | | | | | | | |
| | [No. of vertical mod.] | - | - | - | [4] | - | [6] | [9] |
| Catalog number | - | - | - | LVS03352 | - | LVS03353 | LVS03354 | - |

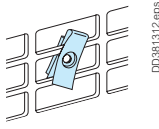
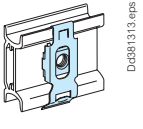
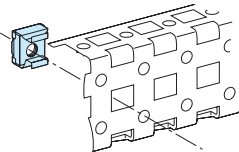
| Reserve space | | | | | | | | |
|--|---|------------|------------|------------|------------|------------|------------|------------|
|  |  | | | | | | | |
| | Plain front plate W = 500 mm | | | | | | | |
| | H = 50 mm | H = 100 mm | H = 150 mm | H = 200 mm | H = 250 mm | H = 300 mm | H = 450 mm | H = 600 mm |
| [No. of vertical mod.] | [1] | [2] | [3] | [4] | [5] | [6] | [9] | [12] |
| Catalog number | LVS03801 | LVS03802 | LVS03803 | LVS03804 | LVS03805 | LVS03806 | - | LVS03808 |
|  |  | | | | | | | |
| | Transparent front plate W = 500 mm | | | | | | | |
| | [No. of vertical mod.] | - | - | - | [4] | - | [6] | [9] |
| Catalog number | - | - | - | LVS03342 | - | LVS03343 | LVS03344 | LVS03345 |

F

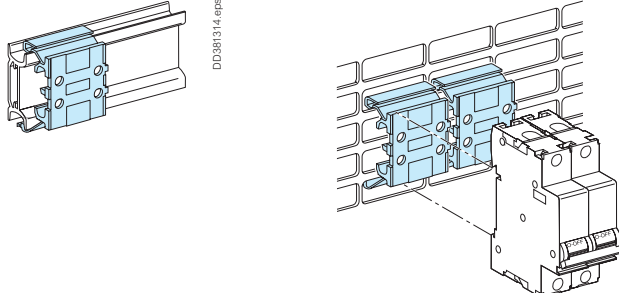
Fixing accessories

Others

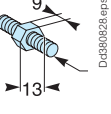
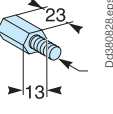
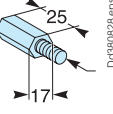
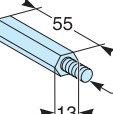
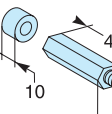
Clip-nuts

| Mounting | For slotted mounting plates | For modular rails | For lateral and longitudinal cross-members |
|-----------------|--|--|--|
| |  DD381312.eps |  Dd381313.eps |  Dd381612.eps |
| M4 | LVS03180 | LVS03164 | - |
| M5 | LVS03181 | LVS03165 | - |
| M6 | LVS03182 | LVS03166 | LVS03194 |
| Characteristics | Set of 20 Mounting of various devices | Set of 20 Mounting of various devices | Set of 20 Mounting in cubicles |

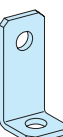
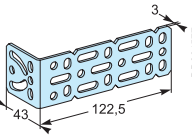
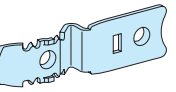
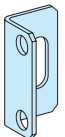

Pratic raiser

| Raiser | |
|-----------------|--|
| |  DD381314.eps DD381516.eps |
| Catalog number | LVS04224 |
| Characteristics | Set of 5 Height 10 mm, wide 27 mm Color: RAL 9003, insulating material |

Hexagonal spacers

| Hexagonal spacers | | | | | |
|-------------------|--|--|--|--|--|
| |  Dd380828.eps |  Dd380828.eps |  Dd380828.eps |  Dd380828.eps |  Dd380828.eps |
| M5 | LVS03185 | LVS03186 | - | LVS03187 | - |
| M6 | LVS03195 | LVS03196 | LVS03198 | LVS03197 | - |
| M8 | - | - | - | - | LVS03199 |
| Characteristics | Height: 9 mm Set of 4 | Height: 23 mm Set of 4 | Height: 25 mm Set of 4 | Height: 55 mm Set of 4 | Height: 40 + 10 mm Set of 4 |

Universal angle brackets

| Universal angle brackets | | | | | |
|--------------------------|--|--|--|--|--|
| |  DD383857.eps |  DD381577.eps |  DD382820.eps |  DD383078.eps |  DD385531.eps |
| Catalog number | LVS03580 | LVS03581 | LVS03582 | LVS03583 | LVS04667 |
| Characteristics | Set of 4 + vis | Set of 2 | 6 universal inserts | Set of 6 | Set of 2 |

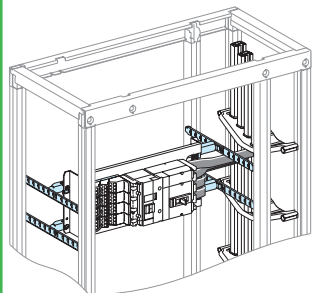
Universal adapter

PrismaSeT G adapter

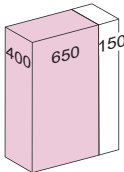
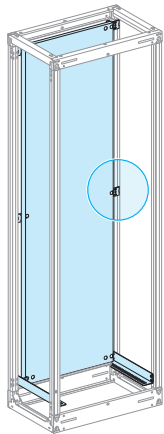
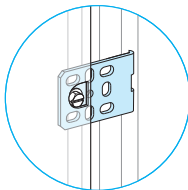
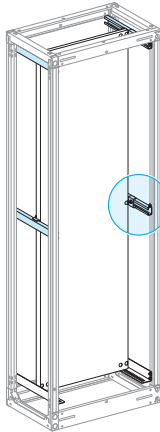
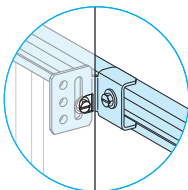
Mounting on a plain backplate

Others

PrismaSeT G adapter

| | W = 500 | W = 250 |
|-----------------|---|---|
| |  | |
| Catalog number | LVS03595 | LVS03596 |
| Characteristics | For installation in a device compartment W = 650 mm | For installation in a device compartment W = 400 mm |
| | Kit with four lateral and two longitudinal cross-members that can be depth adjusted. Installation of components, notably the functional mounting plates, the Linergy BW insulated busbars and the 400 A rear Linergy BS busbars. | |

Mounting on a plain backplate

| Mounting | Plain backplate | Slide rails + angle brackets | |
|--|--|--|--|
|  |   |   | |
| Catalog number | LVS03570 | LVS03569 | LVS03593 |
| Characteristics | 36 modules 510 mm wide for installation in a device compartment W = 650 mm or W = 800 mm (650 + 150) | 36 modules 660 mm wide for installation for a cubicle W = 800 mm | Set of 2 for the installation and depth adjustment |

Note: the adapter **LVS03595** can be used for all mounting plates, except **LVS03030**.

The Linergy BW busbars can be positioned to the left, middle or right of the modular row.

Depth adjustable, the busbars can be supplied by a ComPacT INS-INV switch-disconnector or a fixed/withdrawable ComPacT NSX circuit breaker, whatever the type of operating system (toggle, rotary handle, motor mechanism).

For Linergy BW busbars, order two adapters (**LVS03595** x 2).

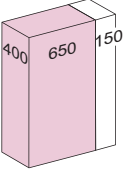
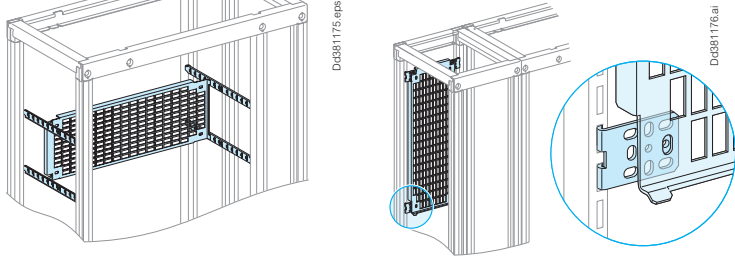
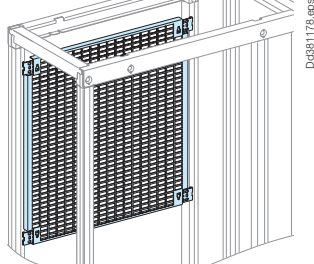
Others devices

Mounting on a slotted plate

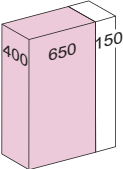
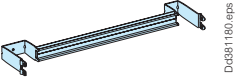
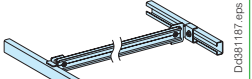
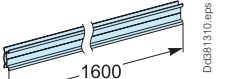
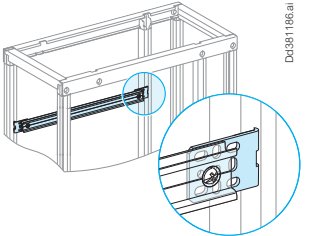
Mounting on a modular rail

Others

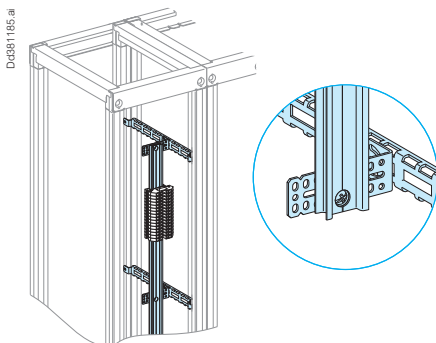
Mounting on a slotted plate

| Mounting | Slotted mounting plates + lateral cross-members | | Slotted mounting plate without lateral cross-members |
|---|--|---------------------|--|
|  |  | |  |
| Catalog number | LVS03571 | LVS03572 | LVS03574 |
| Number of vertical modules | 4 | 6 | 12 |
| Height (mm) | 200 | 300 | 600 |
| 2 universal angle brackets | - | 2 x LVS03581 | - |
| Characteristics | <p>Installation</p> <ul style="list-style-type: none"> ■ either in the device zone on the four lateral cross-members (depth adjustment is possible) ■ or vertically at the rear of a cable compartment, W = 300 mm (LVS03571) or W = 400 mm (LVS03572). | | <p>Galvanised, slotted metal mounting plate</p> <p>Supplied with four angle brackets, they connect directly to the rear of a framework, W = 650 mm or 800 mm (650 + 150 mm)</p> <p>The mounting plate can also be installed using two sets of two slide rails (LVS03593 x 2) for depth adjustment.</p> |

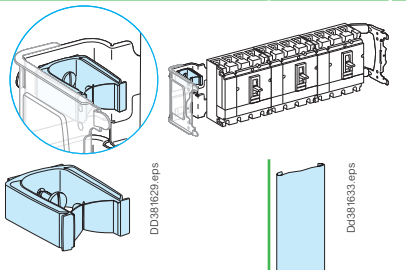

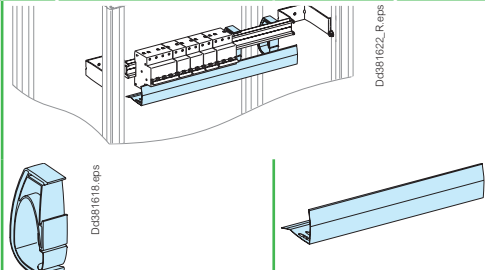
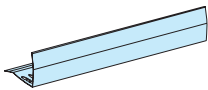
Mounting on a modular rail

| Mounting | Modular rails | | | Modular rail W = 650 mm |
|---|---|---|---|---|
|  |  |  |  |  |
| Catalog number | LVS03401 | LVS03402 | LVS04226 (1) | LVS03590 |
| Characteristics | Useful length: 432 mm | Useful length: 432 mm Modular rail (adjustable) | Set of 2 rails, useful length: 1600 mm with 4 holes, Ø 6.4 mm, 450 mm between centres | W = 650 mm Supplied with two angle brackets for mounting on the framework |

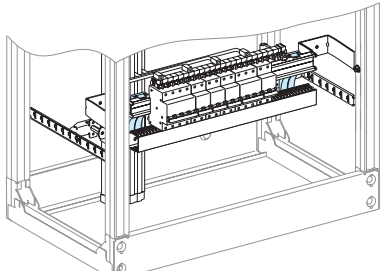
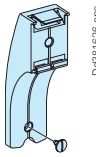
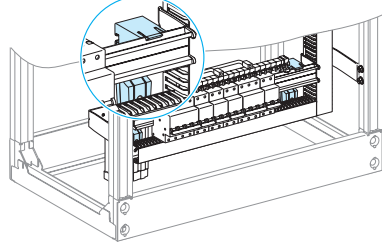
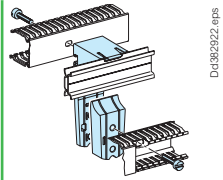
(1) Example of a Linergy busbars installed in a busbar compartment, on a modular rail cat. no. LVS04226 + LVS03581 + LVS08794: > page G-38.



Straps and covers

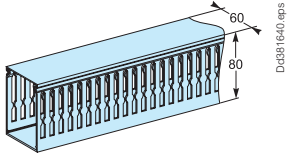
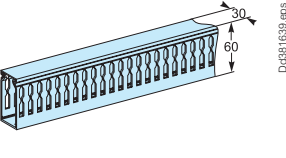
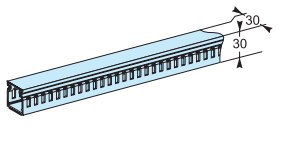
| Type | Vertical cable straps | Covers for vertical cable straps | Horizontal cable straps | Covers for horizontal cable straps |
|-----------------|---|---|---|---|
| |  |  |  |  |
| Catalog number | LVS04262 | LVS04263 | LVS04239 | LVS04243 |
| Characteristics | Set of 12 | Set of 2 x 1 m | Set of 12 Horizontal cable straps have the same capacity as 60 x 30 mm trunking. | Set of 4 covers of 430 mm |

Trunking supports

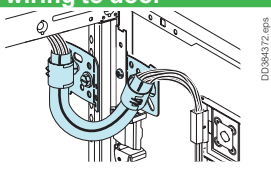
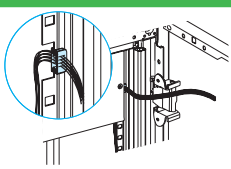
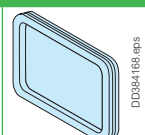

| Type | Horizontal trunking supports | Adaptable support for horizontal trunking |
|-----------------|---|--|
| |   |   |
| Catalog number | LVS04255 | LVS04256 |
| Characteristics | Set of 12 | Set of 10 Aligns the cover of a horizontal trunking section (H = 60 or 80 mm) with that of a vertical trunking section (H = 80 mm) Note: not designed for use with Pack enclosures. |



Trunkings

| Type | Vertical trunkings 80 x 60 mm | Horizontal trunkings 60 x 30 mm | Cable trunkings for doors 30 x 30 mm |
|-----------------|---|--|---|
| |  |  |  |
| Catalog number | LVS04267 | LVS04257 | LVS04233 |
| Characteristics | Set of 18 L = 2000 mm | Set of 4 L = 450 mm Supplied with supports | Set of 30 adhesive trunkings 30 x 30 mm L = 2000 |

Cable trunkings for doors, grommets

| Type | Flexible trunkings for wiring to door | Grommets | | |
|-----------------|---|---|--|---|
| |  |  |  |  |
| Catalog number | LVS04235 | LVS04234 | LVS01215 | 87648 |
| Characteristics | W = 500 mm, inner Ø = 19 mm | Set of 10. For wiring through front. | 5 square grommets 70 x 40. | 50 grommets Ø22 mm. |

Connection accessories

Cable-tie supports, lateral and longitudinal cross-members




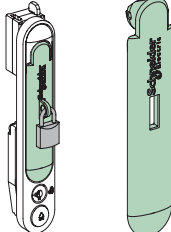
Others

| Mounting | Longitudinal cable-tie supports | | | | Lateral cable-tie supports | |
|-----------------|---|-----------------|-----------------|-----------------|---|-----------------|
| | | | | | | |
| Catalog number | LVS08773 | LVS08774 | LVS08776 | LVS08778 | LVS08794 | LVS08796 |
| Characteristics | W = 300 mm | W = 400 mm | W = 650 mm | W = 800 mm | D = 400 mm | D = 200 mm |
| | Set of 4, supplied with the necessary hardware for connection to the framework. Cable-tie supports are used to correctly position the cables in the connection compartment. | | | | For frameworks that are 400 mm deep, assign a 400 mm deep support to a 200 mm deep support. | |

| Mounting | C-shaped cable-tie supports |
|-----------------|---|
| | |
| Catalog number | LVS08783 |
| Characteristics | <p>C-shaped 1600 mm long support, supplied with hardware for mounting on universal angle brackets and modular rails, that can be cut to length as needed.</p> <p>Can be secured to:</p> <ul style="list-style-type: none"> ■ universal angle bracket LVS03581 (for the longitudinal support) ■ universal angle bracket LVS03582 (for the lateral support) ■ modular rail LVS03593 (for depth adjustment). |

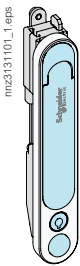

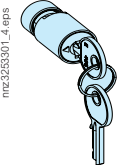




| Mounting | Lateral cross-members | Longitudinal cross-members | |
|-----------------|---|--|--|
| | | | |
| Catalog number | LVS03584 | LVS03586 | LVS03587 |
| Characteristics | <p>Set of 2</p> <p>W = 400 mm: for frameworks that are 400 mm deep</p> | <p>Set of 2</p> <p>W = 200 mm: can be added to the 400 mm crossmembers for frameworks that are 600 mm deep. They can also be installed separately.</p> | <p>Set of 2</p> <p>W = 650 mm</p> <p>They are connected directly to the framework (W = 650 mm). They can also be mounted on the lateral cross-members.</p> |
| | Metallics, they offer numerous positioning holes for easier installation. | | |

Handles and padlocking

| | EURO handle | ASSA/ABLOY handle | RAL 7016 rotary handle | Padlocking |
|-----------------|---|---|---|---|
| |  Dd118386.ai |  Dd118387.ai |  mnc313101_1.eps |  mnc313101-p_2.eps |
| Cat. no. | LVS07932 | LVS07933 | LVS07931 | LVS07938 |
| Characteristics | Supplied without barrel | Supplied without barrel | Supplied with barrel lock (key no. 405) RAL 7016 | For new rotary handle |

Barrel locks, inserts


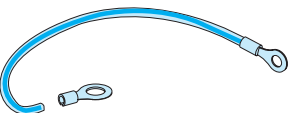
The barrel locks and inserts below can mount on all the door handles of PrismaSeT P range after removing the standard barrel lock (key n°405).

| Barrels & inserts for rotary handle | | Characteristics | Catalog numbers |
|--|---|-----------------------|-----------------|
|  mnc313101_1.eps |  mnc313101_3.eps | 1 key no. 405 | LVS07940 |
| |  mnc325301_4.eps | 2 keys no. 455 | LVS07941 |
| | | 2 keys no. 1242E | LVS07942 |
| | | 2 keys no. 3113A | LVS07943 |
| | | 2 keys no. 2433A | LVS07944 |
| | | 2 keys no. 2432E | LVS07956 |
| |  mnc253701_5.eps | DIN double bar insert | LVS07945 |
|  mnc253801_6.eps | Screwdriver slot insert | LVS07946 | |
|  mnc3254101_7.eps | Male triangle insert 8 mm | LVS07949 | |
|  mnc253901_8.eps | Male square insert | 6 mm | LVS07951 |
| | | 8 mm | LVS07953 |



Earthing braid

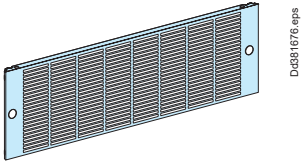
Earthing braid is used to earth a door or wicket door with devices.







| | Earthing braid, 6 mm ² | Earthing wire, 6 mm ² |
|-----------------|---|--|
| |  DD384-368.eps |  DD384-368.eps |
| Catalog numbers | LVS08910 | LVS08911 |
| Characteristics | Equipped with a 4 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm. | Equipped with a 5 mm diameter lug at one end and a 6 mm diameter lug on the other. W = 200 mm |

Ventilation accessories

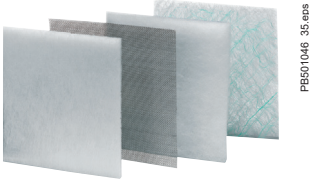
Panel installation

Others

| Front plate | Ventilated front plate | |
|------------------------------|--|-----------------------------------|
| |  | |
| Cat. no. | LVS03891 | LVS03895 |
| Height | 1 vertical module, H = 50 mm | 3 vertical modules, H = 150 mm |
| Characteristics | Degree of protection: IP30. Located at the top and bottom of the switchboard, ventilated front plates facilitate natural convection in the switchboard. | |
| Surface area of the openings | 80 cm ² | 250 cm ² |

| Forced-air ventilation | 38 m ³ /hr | 85 m ³ /hr | 165 m ³ /hr | 300 m ³ /hr | 560 m ³ /hr | 850 m ³ /hr |
|--|---|---|---|--|--|--|
| |  |  |  |  |  |  |
| Cat. no. | NSYCVF38M230PF | NSYCVF85M230PF | NSYCVF165M230PF | NSYCVF300M230PF | NSYCVF560M230PF | NSYCVF850M230PF |
| Unimpeded throughput via filter (m ³ /hr) | 50 Hz | 38 | 85 | 165 | 300 | 562 |
| | 60 Hz | 39 | 98 | 193 | 350 | 586 |
| Throughput via outlet grill (m ³ /hr) | 50 Hz | 25 | 63 | 153 (1) | 260 | 473 |
| | 60 Hz | 26 | 72 | 171 (1) | 307 | 568 |
| Power drawn (W) (max. intensity (A)) | 4,5/4,8 (0,16/0,17) | 17/15 (0,121/0,097) | 16,3/14,3 (0,12/0,94) | 36/37 (0,171/0,16) | 68/85 (0,52/0,370) | 150/195 (0,65/0,85) |
| Noise level (dB (A)) | 40/41 | 46/49 | 50/51 | 55/56 | 59/59 | 76/75 |
| External dimensions (cutting) | 137 x 117 x 49 (92 x 92) | 170 x 150 x 62 (125 x 125) | 268 x 248 x 104 (223 x 223) | 268 x 248 x 116 (223 x 223) | 336 x 316 x 161 (291 x 291) | 336 x 316 x 162 (291 x 291) |
| Weight (kg) | 0,220 | 0,780 | 1,140 | 1,3 | 3,2 | 4,1 |
| Operating temperature | -10...+70 °C | -20...+60 °C | -20...+60 °C | -10...+70 °C | -15...+60 °C | -15...+60 °C |

| Outlet grill | | | | | | |
|--------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Cat. no. | NSYCAG92LPF | NSYCAG125LPF | NSYCAG223LPF | NSYCAG223LPF | NSYCAG291LPF | NSYCAG291LPF |

| Filters for outlet grill | | | | | | |
|--------------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|
| |  | | | | | |
| G2 M1 standard filters | NSYCAF92 | NSYCAF125 | NSYCAF223 | NSYCAF223 | NSYCAF291 | NSYCAF291 |
| G3 M1 fine filters | - | NSYCAF125T | NSYCAF223T | NSYCAF223T | NSYCAF291T | NSYCAF291T |
| Characteristics | Set of 5 (for replacement) Synthetic filters | | | | | |

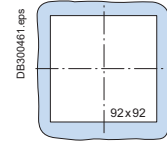
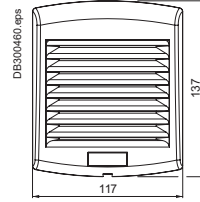
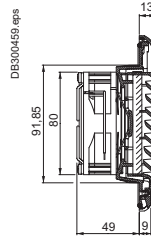
| EMC cover | | | | | | |
|-----------|---|--------------------|--------------------|--------------------|--------------------|--------------------|
| Cat. no. | - | NSYCAP125LE | NSYCAP223LE | NSYCAP223LE | NSYCAP291LE | NSYCAP291LE |

(1) For 2 outlet grills 161 (50 Hz) / 175 (60 Hz).

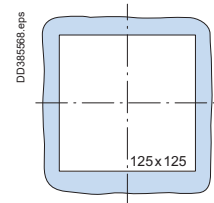
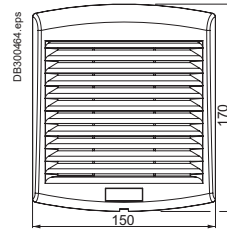
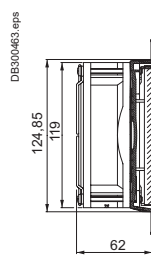
Nota : For other usage voltage like 50V or 110V, see Universal Enclosures catalog, cat. no. UE12MK01EN.

Dimensions

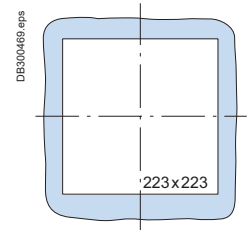
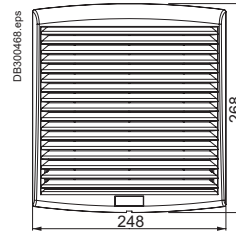
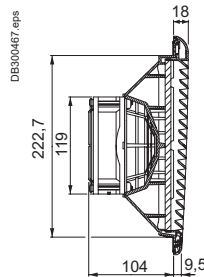
NSYCVF38M230PF



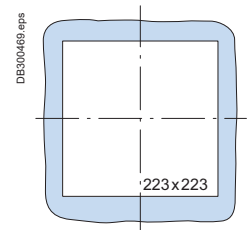
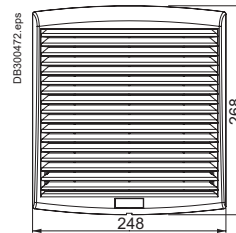
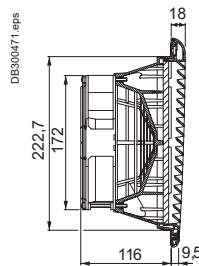
NSYCVF85M230PF



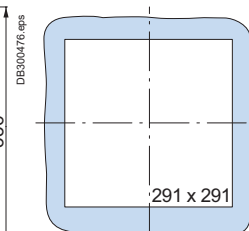
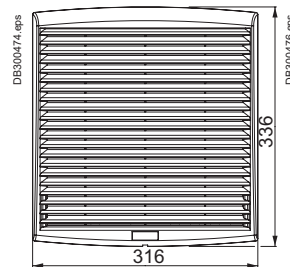
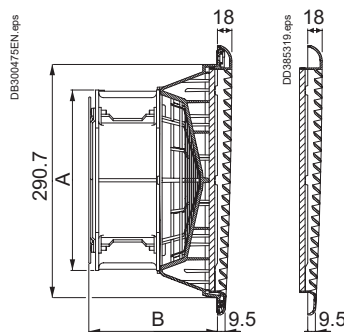
NSYCVF165M230PF



NSYCVF300M230PF



NSYCVF560M230PF - NSYCVF850M230PF



| A | B | Cat. no. |
|-----|-------|-----------------|
| 225 | 160.5 | NSYCVF560M230PF |
| 280 | 192 | NSYCVF850M230PF |



Ventilation accessories

Roof installation

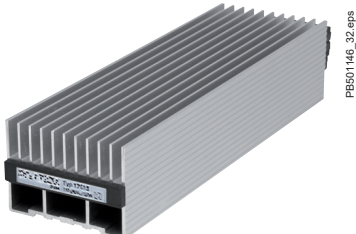

Others

| Roof ventilation | Width 650, IP31 | | Width 800, IP54 | |
|---|---|------------|--|------------|
| | NSYCVF575M230MB or NSYCAC228RMB | | 2 x NSYCVF575M230MB or 2 x NSYCAC228RMB | |
| | | | | |
| Roof with a cut-out | D = 400 mm | D = 600 mm | D = 400 mm | D = 600 mm |
| Catalog numbers | LVS08476 | LVS08676 | LVS08478 | LVS08678 |
| Characteristics | IP31 | IP31 | IP54 | IP54 |
| Forced ventilation top hood with fan | | | | |
| Catalog numbers | NSYCVF575M230MB | | | |
| Characteristics | Fan characteristics <ul style="list-style-type: none"> ■ Power: 85 W ■ Input voltage: 230 V ■ Throughput via outlet grill : <ul style="list-style-type: none"> □ with 1 outlet grill: 350 m³/hr □ Free with filter: 575 m³/hr □ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003 white ■ Noise level: 64 dB. | | | |
| Natural ventilation top hood without fan | | | | |
| Catalog numbers | NSYCAC228RMB | | | |
| Characteristics | <ul style="list-style-type: none"> ■ Material: steel ■ Finishing parts: painted with epoxy-polyester resin, textured RAL 9003 white ■ IP54 ■ Fixing to the top by means of caged nuts and special screws | | | |
| Air-flow cross section = 304 cm ² without electrical fan | | | 2 x 304 cm ² | |


Resistors

Resistors prevent condensation, corrosion and superficial leakage currents. They maintain a positive temperature in the enclosures and cubicles when external temperatures drop very low.

- Install heaters according to the desired power level at the bottom of the enclosure
- Respect a safety area of a least 10 cm around the device
- The heaters must be installed with a thermal controller to control the temperature or the humidity inside the enclosure.
- The enclosure must be sealed to prevent the entry of air from the outside.
- An electrical protection device must be installed on the supply side of the unit.
- Surface temperature limited to 75 °C when the ambient temperature is -5 °C.
- Heaters equipped with a power cable with a length of 500 mm with silicon insulation, or with a connection terminal block.

| | Aluminium PTC resistors | | | | | Resistive heaters with fan | |
|------------------|---|-------------------|-----------------------|--------------------|--------------------|---|-----------------------|
| |  | | | | |  | |
| | Power cord | | Terminal block | | | Terminal block | |
| Cat. no. | NSYCR10WU2 | NSYCR20WU2 | NSYCR55WU2 | NSYCR100WU2 | NSYCR150WU2 | NSYCR250W230VV | NSYCR400W230VV |
| Power rating (W) | 10 | 25 | 55 | 90 | 150 | 250 | 400 |
| Voltage (V) | 110-250 AC | 110-250 AC | 110-250 AC | 110-250 AC | 110-250 AC | 230 AC | 230 AC |
| Characteristics | <ul style="list-style-type: none"> ■ Vertical mounting. ■ Aluminium case with fins. ■ Temperature: <ul style="list-style-type: none"> □ turns off at 60 °C, □ turns on at 25-30 °C (temperature of the resistor itself). ■ Equipped with a symmetrical | | | | | <ul style="list-style-type: none"> ■ Vertical mounting. ■ Aluminium case with fins. ■ Temperature: <ul style="list-style-type: none"> □ turns off at 60 °C, □ turns on at 25-30 °C (temperature of the resistor itself). ■ Equipped with a symmetrical | |

Thermofan

| | Thermofan |
|------------------|---|
| |  |
| | Terminal block |
| Cat. no. | NSYCRP1W230VTVC |
| Power rating (W) | 400/550 |
| Voltage (V) | 230 AC |
| Characteristics | <ul style="list-style-type: none"> ■ Combination of a resistance heater and an axial motor to ensure uniform heating of the enclosure. ■ Fixing by clip on a DIN rail. ■ Thermostat adjustable from 0...+60 °C. ■ Visual operation indicator. |

Ventilation accessories

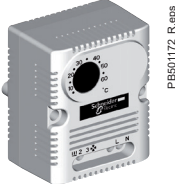
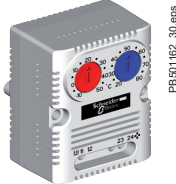

Regulating

Others


Regulating

The thermostat can control the temperature inside electrical switchboards in conjunction with heating resistors and fans.

This thermostat can control the activation of a fan and a heater and regulate their temperature independently.

| | Mechanical thermostats | | Electronical thermostats | | |
|---|--|---|---|---|---|
| |  |  |  | | |
| | Thermostat with OF contact NSYCCOTHI | Double thermostat NSYCCOTHD | Electronical thermostat NSYCCOTH230VID | Electronic hygrotherm NSYCCOHYT230VID | Electronic hygrostat NSYCCOHY230VID |
| Cat. no. | | | | | |
| Colour of the button | Black | <ul style="list-style-type: none"> Red: with normally closed contact (NC) for controlling the resistance heaters. Blue: with normally open contact (NO) for controlling the fans, signalling systems or alarms. | - | - | - |
| Contact | Inverse, forced rupture | 1 with normally closed contact (NC), 1 with normally open contact (NO), forced rupture | Free with zero potential | | |
| Internal sensor element | Bimetal | | Internal temperature sensor | - | Internal humidity sensor |
| Switching capacity | 250 V AC ; 10 A (resistive load) | 250 V AC ; 10 A 120 V AC ; 15 A 250 V AC/120 V AC : 2 A (inductive load cos Ø= 0,6) 30 W DC | - | - | - |
| Max interrupting capacity with direct current | 250 V AC 4 A (charge inductive Ø = 0,6) 30 W DC | - | - | - | - |
| Connection | Four 2.5 mm ² terminals | Six 2.5 mm ² terminals | 2 x 2.5 mm ² (input voltage) + 2 relays (2 x 2.5 mm ² + 2 x 2.5 mm ²) | 2 x 2.5 mm ² (input voltage) + 2 relays (2 x 2.5 mm ² + 2 x 2.5 mm ²) | 2 x 2.5 mm ² (input voltage) + 1 relay (2 x 2.5 mm ²) |
| Dimensions (mm) | 67 x 50 x 44 | 60 x 33 x 43 | - | - | - |
| Weight (g) | 100 | 40 | - | - | - |
| Hysteresis | 7° K | 7° K | Programmed 2 °K | 3 % | 3 % |
| Temperature setting range | +5...+60 °C | 0...+60 °C | -40 °C...+80 °C | -40 °C...+80 °C | -40 °C...+80 °C, humidity setting range:20 %...80 % |
| Characteristics | <ul style="list-style-type: none"> Ingress protection rating: IP20. Contact resistance: < 10 mΩ. Service life: > 100 000 cycles. Fixing: by clip on a 35-mm DIN rail Case : plastic UL 94 V-0, light grey. Operating temperature : -20...+80 °C (-4...+176 °F). Display : °C/°F. Max. command intensity: (NC) 5 A (NO) 10 A. | | <ul style="list-style-type: none"> Ingress protection rating: IP20. Certification : UL/UR. Fixing: 4 different methods: on DIN rail, Spacial SF profile, on VDI cross-rail or on mounting plate Boîtier : plastique UL 94 V-0, gris clair. Operating temperature : -40 °C...+80 °C. Display : °C/°F. Max. command intensity: 8 (5) A 230 V AC / 5 A 30 V DC. | | |

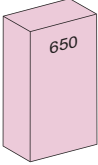
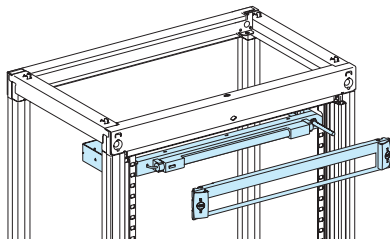
PTC external temperature sensor (double insulation)

| | |
|-----------------|---|
| |  |
| Cat. no. | NSYCCASTE |
| Characteristics | <ul style="list-style-type: none"> Sensor operation or reading range: -30 °C...+80 °C. IP67. Thermostat installation tips: the thermostat should be installed at the top of the enclosure (the hottest place). See the various operating modes of each thermostat to choose the one that best meets your needs. Hygrostat installation tips: the hygrostat should be installed at the bottom of the enclosure. 60 % RH is the optimum value in the enclosure. |

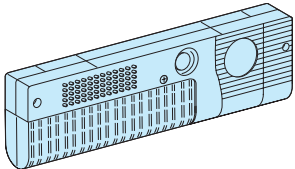
Thermal management of switchboards

> page C-9.

Lighting system

| Fixed lighting | |
|---|--|
|  |  |
| Catalog number | LVS08964 |
| Presentation | <p>This system is generally used to illuminate the front of a switchboard.</p> <ul style="list-style-type: none"> ■ The kit is made up of: <ul style="list-style-type: none"> □ a base □ a neon tube □ a front plate with cut-out (1 module) □ a door contact. |
| Characteristics | <ul style="list-style-type: none"> ■ Supply voltage: 220/240 V ■ Power rating: 8 W ■ Height: 1 vertical module (50 mm) |

Switchboard portable lamp

| Switchboard portable lamp | |
|---------------------------|--|
| |  |
| Catalog number | LVS08965 |
| Presentation | <ul style="list-style-type: none"> ■ Lamp with a magnetic base for installation behind a door or directly on the cubicle framework. ■ Supplied without a power cord. ■ H x W x D: 90 x 345 x 42 |
| Characteristics | <ul style="list-style-type: none"> ■ Supply voltage: 220/240 V ■ Power rating: 11 W ■ Lamp: picoline OSRAM 8W (supplied) ■ Class 2 ■ IP20 |

F

Linergy distribution systems

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Linergy LGYE

Horizontal profiles up to 4000 A

400 mm deep installation

Power busbars

| Linergy LGYE profiles | | Up to 1600 A | | | | | Up to 2500 A | | Up to 4000 A | |
|--|---------|--------------|----------|----------|----------|----------|--------------|----------|--------------|----------|
| Installation | | | | | | | | | | |
| Linergy profiles, 2000 mm length | | | | | | | | | | |
| Permissible current for an ambient temperature of 35 °C around the switchboard | IP ≤ 31 | 630 A | 800 A | 1000 A | 1250 A | 1600 A | 2000 A | 2500 A | 3200 A | 4000 A |
| | IP > 31 | 530 A | 680 A | 850 A | 1050 A | 1480 A | 1650 A | 2100 A | 2800 A | 3350 |
| Number of profiles per phase | | 1 | | | | | 3 | | 4 | |
| Total number of vertical modules (50 mm) | | 3 | | | | | 3 | | 4 | |
| Catalog numbers | | LVS04560 | LVS04561 | LVS04562 | LVS04563 | LVS04564 | LVS04565 | LVS04566 | LVS04567 | LVS04568 |

| Busbar supports | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------|---------------------------------------|---------------------------------------|---------------------------------------|------|---|------|-----|------|-----|------|-----|------|-----|-------|-----|
| | | | | | | | | | | | | | | | | | | | | | | |
| <p>Fixed support LVS04664 Free support LVS04662 Fixed support LVS04665 Free support LVS04678</p> | | | | | | | | | | | | | | | | | | | | | | |
| <p>Characteristics</p> <p>Two fixed supports for 650 mm or 650 + 150 mm wide PrismaSeT P frameworks and one fixed support for 300/400 mm wide PrismaSeT P frameworks are mandatory. If more supports are required, use free supports. Note: in case of 600 mm depth with 115 mm between centers, replace LVS04664 fixed support by LVS04665 and LVS04662 free support by LVS04678.</p> | | | | | | | | | | | | | | | | | | | | | | |
| In cubicle W = 650 or W = 650+150 busbar supports 75 mm between centres | Number of supports depending on l _{cw} (kA rms/1 s) | <table border="1"> <tr><td>≤ 15</td><td>2</td></tr> <tr><td>≤ 25</td><td>2</td></tr> <tr><td>≤ 30</td><td>2</td></tr> <tr><td>≤ 40</td><td>2</td></tr> <tr><td>≤ 50</td><td>2</td></tr> <tr><td>≤ 60</td><td>2+1</td></tr> <tr><td>≤ 65</td><td>2+1</td></tr> <tr><td>≤ 75</td><td>2+1</td></tr> <tr><td>≤ 85</td><td>2+1</td></tr> <tr><td>≤ 100</td><td>2+3</td></tr> </table> | ≤ 15 | 2 | ≤ 25 | 2 | ≤ 30 | 2 | ≤ 40 | 2 | ≤ 50 | 2 | ≤ 60 | 2+1 | ≤ 65 | 2+1 | ≤ 75 | 2+1 | ≤ 85 | 2+1 | ≤ 100 | 2+3 |
| | ≤ 15 | 2 | | | | | | | | | | | | | | | | | | | | |
| ≤ 25 | 2 | | | | | | | | | | | | | | | | | | | | | |
| ≤ 30 | 2 | | | | | | | | | | | | | | | | | | | | | |
| ≤ 40 | 2 | | | | | | | | | | | | | | | | | | | | | |
| ≤ 50 | 2 | | | | | | | | | | | | | | | | | | | | | |
| ≤ 60 | 2+1 | | | | | | | | | | | | | | | | | | | | | |
| ≤ 65 | 2+1 | | | | | | | | | | | | | | | | | | | | | |
| ≤ 75 | 2+1 | | | | | | | | | | | | | | | | | | | | | |
| ≤ 85 | 2+1 | | | | | | | | | | | | | | | | | | | | | |
| ≤ 100 | 2+3 | | | | | | | | | | | | | | | | | | | | | |
| Catalog numbers | <table border="1"> <tr> <td>Fixed support</td> <td>LVS04664</td> <td>LVS04664 + LVS04671 (1) (hardware)</td> <td>LVS04664 + LVS04646 (2) (hardware)</td> </tr> <tr> <td>Free support</td> <td>LVS04662</td> <td>LVS04662 + LVS04671 (1) (hardware)</td> <td>LVS04662 + LVS04646 (2) (hardware)</td> </tr> </table> | Fixed support | LVS04664 | LVS04664 + LVS04671 (1) (hardware) | LVS04664 + LVS04646 (2) (hardware) | Free support | LVS04662 | LVS04662 + LVS04671 (1) (hardware) | LVS04662 + LVS04646 (2) (hardware) | | | | | | | | | | | | | |
| Fixed support | LVS04664 | LVS04664 + LVS04671 (1) (hardware) | LVS04664 + LVS04646 (2) (hardware) | | | | | | | | | | | | | | | | | | | |
| Free support | LVS04662 | LVS04662 + LVS04671 (1) (hardware) | LVS04662 + LVS04646 (2) (hardware) | | | | | | | | | | | | | | | | | | | |
| In cubicle W = 800 busbar supports 75 mm between centres | Number of supports depending on l _{cw} (kA rms/1 s) | 2 + 4 (3) | | | | | | | | | | | | | | | | | | | | |
| | Catalog numbers | <table border="1"> <tr> <td>Fixed support</td> <td>LVS04664</td> <td>LVS04664 + LVS04671 (1) (hardware)</td> <td>LVS04664 + LVS04646 (2) (hardware)</td> </tr> <tr> <td>Free support</td> <td>LVS04662</td> <td>LVS04662 + LVS04671 (1) (hardware)</td> <td>LVS04662 + LVS04646 (2) (hardware)</td> </tr> </table> | Fixed support | LVS04664 | LVS04664 + LVS04671 (1) (hardware) | LVS04664 + LVS04646 (2) (hardware) | Free support | LVS04662 | LVS04662 + LVS04671 (1) (hardware) | LVS04662 + LVS04646 (2) (hardware) | | | | | | | | | | | | |
| Fixed support | LVS04664 | LVS04664 + LVS04671 (1) (hardware) | LVS04664 + LVS04646 (2) (hardware) | | | | | | | | | | | | | | | | | | | |
| Free support | LVS04662 | LVS04662 + LVS04671 (1) (hardware) | LVS04662 + LVS04646 (2) (hardware) | | | | | | | | | | | | | | | | | | | |
| In duct W = 300 busbar supports 75 mm between centres | Number of supports depending on l _{cw} (kA rms/1 s) | <table border="1"> <tr><td>≤ 60</td><td>1</td></tr> <tr><td>≤ 85</td><td>1 + 1</td></tr> <tr><td>≤ 100</td><td>1 + 1</td></tr> </table> | ≤ 60 | 1 | ≤ 85 | 1 + 1 | ≤ 100 | 1 + 1 | | | | | | | | | | | | | | |
| | ≤ 60 | 1 | | | | | | | | | | | | | | | | | | | | |
| ≤ 85 | 1 + 1 | | | | | | | | | | | | | | | | | | | | | |
| ≤ 100 | 1 + 1 | | | | | | | | | | | | | | | | | | | | | |
| Catalog numbers | <table border="1"> <tr> <td>Fixed support</td> <td>LVS04664</td> <td>LVS04664 + LVS04671 (1) (hardware)</td> <td>LVS04664 + LVS04646 (2) (hardware)</td> </tr> <tr> <td>Free support</td> <td>LVS04662</td> <td>LVS04662 + LVS04671 (1) (hardware)</td> <td>LVS04662 + LVS04646 (2) (hardware)</td> </tr> </table> | Fixed support | LVS04664 | LVS04664 + LVS04671 (1) (hardware) | LVS04664 + LVS04646 (2) (hardware) | Free support | LVS04662 | LVS04662 + LVS04671 (1) (hardware) | LVS04662 + LVS04646 (2) (hardware) | | | | | | | | | | | | | |
| Fixed support | LVS04664 | LVS04664 + LVS04671 (1) (hardware) | LVS04664 + LVS04646 (2) (hardware) | | | | | | | | | | | | | | | | | | | |
| Free support | LVS04662 | LVS04662 + LVS04671 (1) (hardware) | LVS04662 + LVS04646 (2) (hardware) | | | | | | | | | | | | | | | | | | | |
| In duct W = 400 busbar supports 75 mm between centres | Number of supports depending on l _{cw} (kA rms/1 s) | <table border="1"> <tr><td>≤ 50</td><td>1</td></tr> <tr><td>≤ 85</td><td>1 + 1</td></tr> <tr><td>≤ 100</td><td>1 + 1</td></tr> </table> | ≤ 50 | 1 | ≤ 85 | 1 + 1 | ≤ 100 | 1 + 1 | | | | | | | | | | | | | | |
| | ≤ 50 | 1 | | | | | | | | | | | | | | | | | | | | |
| ≤ 85 | 1 + 1 | | | | | | | | | | | | | | | | | | | | | |
| ≤ 100 | 1 + 1 | | | | | | | | | | | | | | | | | | | | | |
| Catalog numbers | <table border="1"> <tr> <td>Fixed support</td> <td>LVS04664</td> <td>LVS04664 + LVS04671 (1) (hardware)</td> <td>LVS04664 + LVS04646 (2) (hardware)</td> </tr> <tr> <td>Free support</td> <td>LVS04662</td> <td>LVS04662 + LVS04671 (1) (hardware)</td> <td>LVS04662 + LVS04646 (2) (hardware)</td> </tr> </table> | Fixed support | LVS04664 | LVS04664 + LVS04671 (1) (hardware) | LVS04664 + LVS04646 (2) (hardware) | Free support | LVS04662 | LVS04662 + LVS04671 (1) (hardware) | LVS04662 + LVS04646 (2) (hardware) | | | | | | | | | | | | | |
| Fixed support | LVS04664 | LVS04664 + LVS04671 (1) (hardware) | LVS04664 + LVS04646 (2) (hardware) | | | | | | | | | | | | | | | | | | | |
| Free support | LVS04662 | LVS04662 + LVS04671 (1) (hardware) | LVS04662 + LVS04646 (2) (hardware) | | | | | | | | | | | | | | | | | | | |

| Joints | | Up to 1600 A | | | | | Up to 2500 A | | Up to 4000 A | |
|-----------------|--|--|-------|--------|--------|--------|--------------|--------|---|--------|
| | | 630 A | 800 A | 1000 A | 1250 A | 1600 A | 2000 A | 2500 A | 3200 A | 4000 A |
| | | | | | | | | | | |
| Catalog numbers | | LVS04620 LVS04623 | | | | | LVS04624 | | 3x LVS04623 (3P) 4x LVS04623 + LVS04624 (4P) | |
| Note | | LVS04624 is mandatory in case of jointed 4P Linergy LGYE busbars installations and must be installed only at the junction on side-by-side frameworks combination. When installed at the bottom of cubicles, the busbars must be partitioned. | | | | | | | | |

- (1) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Contains 2 threaded rods and 4 insulators.
- (2) LVS04646: mounting hardware for bars or profile H = 150 mm. Contains 2 threaded rods and 2 insulators. Note: for accessories > page G-13.
- (3) It is applicable for W800 control panel configuration only.

Linergy BS

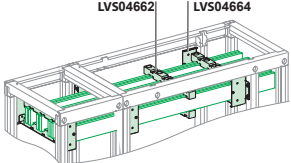
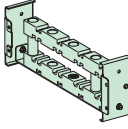
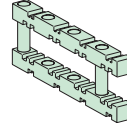
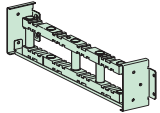
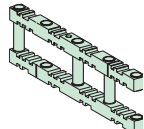
Horizontal busbars up to 4000 A

400 mm deep installation

Power busbars

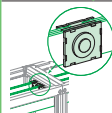
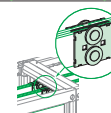
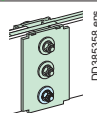
| Flat bars | | Up to 1600 A | | | | Up to 4000 A | | | | | | | | |
|--|--|--------------------------------------|----------|----------|----------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Installation | | Copper without holes, 2000 mm length | | | | | | | | | | | | |
| Permissible current for an ambient temperature of 35 °C around the switchboard | | IP ≤ 31 | 800 A | 1000 A | 1400 A | 1800 A | 1200 A | 1400 A | 1800 A | 2050 A | 2300 A | 2820 A | 3300 A | 3760 A |
| | | IP > 31 | 750 A | 900 A | 1250 A | 1600 A | 1080 A | 1250 A | 1600 A | 1850 A | 2000 A | 2500 A | 2900 A | 3340 A |
| Size of bars (mm) | | | 60 x 5 | 80 x 5 | 60 x 5 | 80 x 5 | 50 x 10 | 60 x 10 | 80 x 10 | 50 x 10 | 60 x 10 | 80 x 10 | 100 x 10 | 120 x 10 |
| Number of bars per phase | | | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| Total number of vertical modules (50 mm) | | | 3 | | | | | | | | | | | |
| Catalog numbers | | | LVS04536 | LVS04538 | LVS04536 | LVS04538 | LVS04545 | LVS04546 | LVS04548 | LVS04545 | LVS04546 | LVS04548 | LVS04550 | LVS04552 |

Busbar supports

| | | | | | | | | | | | | |
|---|--|--|-----------------|---|-----|---|---|---|-----|--|---|--|
|  | |  | |  | |  | |  | | | | |
| Characteristics | | Fixed support LVS04664 Free support LVS04662 Fixed support LVS04665 Free support LVS04678 Two fixed supports for 650 mm, 650 + 150 mm wide frameworks and one fixed support for 300/400 mm wide PrismaSeT P frameworks are mandatory. If more supports are required, use free supports. Note: in case of 600 mm depth with 115 mm between centers, replace LVS04664 fixed support by LVS04665 and LVS04662 free support by LVS04678 . | | | | | | | | | | |
| In cubicle W = 650 or W = 650+150 busbar supports 75 mm between centres | Number of supports depending on l _{cw} (kA rms/1 s) | ≤ 15 | 2 | | 2+1 | | 2 | | | | | |
| | | ≤ 25 | 2+1 | | 2 | | | | | | | |
| | | ≤ 30 | 2+1 | | 2 | | | | | | | |
| | | ≤ 40 | 2+1 | | | | | | | | | |
| | | ≤ 50 | - | | 2+1 | | | | 2 | | | |
| | | ≤ 60 | - | | | | 2+1 | | | | | |
| | | ≤ 65 | - | | | | 2+1 | | | | | |
| | | ≤ 75 | - | | | | 2+2 | | 2+1 | | | |
| | | ≤ 85 | - | | | | - | | 2+1 | | | |
| | Catalog numbers | Fixed support | LVS04664 | | | | LVS04664 | | | | LVS04664 + LVS04671 (1) (hardware) | |
| | | Free support | LVS04662 | | | | LVS04662 | | | | LVS04662 + LVS04671 (1) (hardware) | |
| In cubicle W = 800 busbar supports 75 mm between centres | Number of supports depending on l _{cw} (kA rms/1 s) | ≤ 100 | 2 + 4 (2) | | | | | | | | | |
| | | | | | | | | | | | | |
| | Catalog numbers | Fixed support | LVS04664 | | | | LVS04664 + LVS04671 (1) (hardware) | | | | LVS04664 + LVS04646 (2) (hardware) | |
| | | Free support | LVS04662 | | | | LVS04662 + LVS04671 (1) (hardware) | | | | LVS04662 + LVS04646 (2) (hardware) | |
| In duct W = 300 busbar supports 75 mm between centres | Number of supports depending on l _{cw} (kA rms/1 s) | ≤ 30 | 1 | | | | | | | | | |
| | | ≤ 50 | 1 + 1 | | | | 1 | | | | | |
| | | ≤ 85 | - | | | | 1 + 1 | | | | | |
| | Catalog numbers | Fixed support | LVS04664 | | | | LVS04664 | | | | LVS04664 + LVS04671 (1) (hardware) | |
| | | Free support | LVS04662 | | | | LVS04662 | | | | LVS04662 + LVS04671 (1) (hardware) | |
| In duct W = 400 busbar supports 75 mm between centres | Number of supports depending on l _{cw} (kA rms/1 s) | ≤ 25 | 1 | | | | | | | | | |
| | | ≤ 40 | 1 + 1 | | | | 1 | | | | | |
| | | ≤ 50 | 1 + 1 | | | | | | | | | |
| | | ≤ 85 | - | | | | 1 + 1 | | | | | |
| | Catalog numbers | Fixed support | LVS04664 | | | | LVS04664 | | | | LVS04664 + LVS04671 (1) (hardware) | |
| | | Free support | LVS04662 | | | | LVS04662 | | | | LVS04662 + LVS04671 (1) (hardware) | |



Joints

| Installation | Up to 1600 A | | | | Up to 4000 A | | | | | |
|--|---|----------|---|----------|---|----------|------------------|----------|----------|----------|
| | 1 bar per phase | | 2 bars per phase | | 1 bar per phase | | 2 bars per phase | | | |
| Size of bars (mm) | 60 x 5 | 80 x 5 | 60 x 5 | 80 x 5 | 80 x 10 | 50 x 10 | 60 x 10 | 80 x 10 | 100 x 10 | 120 x 10 |
| Sliding joints with torque nut |  | |  | |  | | | | | |
| | LVS04640 | | LVS04641 | | LVS04643 | | | | | |
| Catalog numbers (1 joint per phase) | LVS04640 | LVS04641 | LVS04640 | LVS04641 | LVS04641 | LVS04640 | LVS04640 | LVS04641 | LVS04641 | LVS04643 |
| Note | when installed at the bottom of cubicles, the busbars must be partitioned. | | | | | | | | | |

(1) **LVS04671**: mounting hardware for bars or profile H = 100 or 120 mm. Containt 2 threaded rods and 4 insulators.

(2) It is applicable for W800 control panel configuration only.

Version : 14 - 15/12/2023

160E7100



Linergy LGY

Lateral profiles up to 3200 A

400 mm deep installation

Power busbars

| Linergy LGY profiles | | Up to 1600 A (simple busbars) | | | | | Up to 3200 A (double busbars) | | |
|--|--------------|-------------------------------|----------|----------|----------|----------|-------------------------------|------------|------------|
| In duct Linergy profiles, 1670 mm length | | W150 | | | | | 2 x W150 | | |
| | | | | | | | | | |
| Permissible current for an ambient temperature of 35 °C around the switchboard | $IP \leq 31$ | 630 A | 800 A | 1000 A | 1250 A | 1600 A | 2 x 1000 A | 2 x 1250 A | 2 x 1600 A |
| | $IP > 31$ | 590 A | 760 A | 950 A | 1170 A | 1480 A | 2000 A | 2500 A | 3200 A |
| Number of profiles per phase | | 1 | | | | | 2 | | |
| Catalog numbers | | LVS04502 | LVS04503 | LVS04504 | LVS04505 | LVS04506 | LVS04504 | LVS04505 | LVS04506 |

| Busbar supports | | Fixed support LVS04651 | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|------|---|---|-------|-------|-------|-------|-------|-------|-------|
| | Characteristics | An end stop must be installed on the bottom support: LVS01109 (set of 12). | | | | | | | | | | | | | | | | | | | | | | | | |
| | Number of supports depending on Icw (kA rms/1 s) | <table border="1"> <tr><td>≤ 25</td><td>3</td></tr> <tr><td>≤ 30</td><td>3</td></tr> <tr><td>≤ 40</td><td>3</td></tr> <tr><td>≤ 50</td><td>4</td></tr> <tr><td>≤ 60</td><td>5</td></tr> <tr><td>≤ 65</td><td>5</td></tr> <tr><td>≤ 75</td><td>7</td></tr> <tr><td>≤ 85</td><td>8</td></tr> </table> | ≤ 25 | 3 | ≤ 30 | 3 | ≤ 40 | 3 | ≤ 50 | 4 | ≤ 60 | 5 | ≤ 65 | 5 | ≤ 75 | 7 | ≤ 85 | 8 | <table border="1"> <tr><td>2 x 3</td></tr> <tr><td>2 x 3</td></tr> <tr><td>2 x 3</td></tr> <tr><td>2 x 3</td></tr> <tr><td>2 x 4</td></tr> <tr><td>2 x 4</td></tr> <tr><td>2 x 5</td></tr> <tr><td>2 x 5</td></tr> </table> | 2 x 3 | 2 x 3 | 2 x 3 | 2 x 3 | 2 x 4 | 2 x 4 | 2 x 5 |
| ≤ 25 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ≤ 30 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ≤ 40 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ≤ 50 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ≤ 60 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ≤ 65 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ≤ 75 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ≤ 85 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 x 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Catalog numbers | Fixed support | LVS04651 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Chock | LVS01109 | | | | | | | | | | | | | | | | | | | | | | | | |

| Equipotential links | | Equipotential link DD382576-LIN-30-eps | |
|---------------------|---|--|--|
| | 3 equipments must be installed between the busbars. | | |
| | | Connection made with a flat 80 x 10 mm busbar between 2 W150 ducts | |

| Connections to the horizontal Linergy BS busbars | | Horizontal busbar connection DD3885427-eps | |
|--|---------------------|--|-----------------------------|
| Characteristics | | Mounting hardware supplied. Order 1 link per phase | |
| Cat. no. according to horizontal busbar size | Thickness 5 mm | LVS04634 (1000 A) | LVS04635 (1600 A) |
| | Thickness W ≤ 80 mm | LVS04636 | 2 x LVS04636 |
| | 10 mm W 100 mm | LVS04636 + LVS04642 (2) | 2 x LVS04636 + 2 x LVS04642 |
| | W 120 mm | LVS04638 | 2 x LVS04638 |

| Connections to the horizontal Linergy LGYE busbars | | Vertical busbar connection DD384457-eps | |
|--|----------|---|--|
| Characteristics | | Supplied with mounting hardware. Catalog numbers include 1 connection only: 1 connection per phase. | |
| Cat. no. according to horizontal busbar size | ≤ 1600 A | LVS04602 (vertical connection) | |
| | | LVS04603 (vertical shifted connection) (1) | |

(1) Dedicated connection LVS04603 for Linergy LGYE busbar in 150 mm duct with horizontal jointing
 (2) LVS04642: mounting hardware for bars > 80 mm. Comprises 2 threaded rods.

Linery LGYE

Lateral profiles up to 4000 A

400 mm deep installation

Power busbars

Linery LGYE profiles

| | Linery profile, 2000 mm length (1) | | | | | Linery profile, 1625 mm length | | | |
|--|------------------------------------|------------------|----------|----------|----------|--------------------------------|----------|----------|----------|
| In duct | W150 | | | | | W150 | | W300 | |
| Linery profile | | | | | | | | | |
| | 630 A | 800 A | 1000 A | 1250 A | 1600 A | 2000 A | 2500 A | 3200 A | 4000 A |
| Permissible current for an ambient temperature of 35 °C around the switchboard | IP ≤ 31 630 A | IP > 31 800 A | 1000 A | 1250 A | 1650 A | 2000 A | 2440 A | 3200 A | 3620 A |
| Length to cut for side mounting | 1675 mm | | | | | - | | - | |
| Number of profiles per phase | 1 | | | | | - | | - | |
| Catalog numbers | LVS04560 | LVS04561 | LVS04562 | LVS04563 | LVS04564 | LVS04507 | LVS04508 | LVS04509 | LVS04510 |

Busbar supports

| | | | | | | | |
|---|------------------------|--|-----------------------|-----|-------------------------|-----|--|
| | Fixed support LVS04661 | | Free support LVS04662 | | Bottom support LVS04666 | | |
| | Characteristics | Attach directly to the framework. Three fixed supports are required to maintain the busbars. If more than three supports are required, use additional free supports. The bottom support maintains the bars in position. It is not considered a busbar support. Note: in case of 600 mm depth with 115 mm between centers, replace LVS04661 fixed support by LVS04668, free support LVS04662 by LVS04678 and bottom support LVS04663 or LVS04666 by LVS04673. | | | | | |
| Number depending on I _{cw} (kArms/1 s) | ≤ 30 | 3 | | 3 | | 3 | |
| ≤ 40 | - | 3+2 | | 3 | | 3 | |
| ≤ 50 | - | 3+2 | | 3 | | 3 | |
| ≤ 60 | - | 3+2 | | 3 | | 3 | |
| ≤ 65 | - | 3+2 | | 3 | | 3 | |
| ≤ 75 | - | 3+4 | | 3+2 | | 3+2 | |
| ≤ 85 | - | 3+4 | | 3+2 | | 3+2 | |
| ≤ 100 | - | 3+6 | | 3+2 | | 3+2 | |

| | | | | |
|---|---------------|----------|-------------------------|-------------------------|
| In duct W150, W = 300 busbar supports 75 mm between centres | Fixed support | LVS04661 | LVS04661 + LVS04671 (2) | LVS04661 + LVS04646 (3) |
| | Free support | LVS04662 | LVS04662 + LVS04671 (2) | LVS04662 + LVS04646 (3) |

Busbars chocks

| | | | |
|-----------------------|---|----------|---------------------|
| | | | |
| Characteristics | Chocks installed on a bottom support LVS04658 The bottom support maintains the sections in position. It is not considered a busbar support. | | |
| In duct W150, W = 300 | Bottom support | LVS04663 | LVS04666 + LVS04661 |
| | Chocks | LVS04658 | LVS04659 |

Connections to the horizontal Linery LGYE busbars

| | | | |
|--|---|---|----------------|
| | | | |
| Characteristics | 630 to 1600 A | 2000 to 2500 A | 3200 to 4000 A |
| | Supplied with mounting hardware. Catalog numbers include 1 connection only: 1 connection per phase. | | |
| Cat. no. according to horizontal busbar size | LVS04602 (straight connection) LVS04603 (shifted connection) | LVS04604 (short connection) LVS04605 (long connection) | LVS04607 |

(1) Linery LGYE profiles up to 1600 A must be cut at the dimension of the cubicle : 1625 mm
 (2) LVS04671: mounting hardware for bars or profile H = 100 or 120 mm. Containt 2 threaded rods and 4 insulators.
 (3) LVS04646: mounting hardware for bars or profile H = 150 mm. Containt 2 threaded rods and 3 insulators

Linery BS

Lateral flat busbars up to 4000 A

400 mm deep installation

Power busbars

| Flat bars | | | | | | | | | | | | | | |
|--|--------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|---------------|--------|
| | Up to 1600 A | | | | Up to 4000 A | | | | | | | | | |
| In duct | W150 | | | | W150 | | | | 2 x W150 | | W300 | | | |
| Copper with holes, 1675 mm length | | | | | | | | | | | | | | |
| Permissible current for an ambient temperature of 35 °C around the switchboard | IP ≤ 31 | 800 A | 1000 A | 1400 A | 1800 A | 1200 A | 1400 A | 1800 A | 2050 A | 2300 A | 2820 A | 3200 A | 3200 A | 3760 A |
| | IP > 31 | 750 A | 900 A | 1250 A | 1600 A | 1080 A | 1250 A | 1600 A | 1850 A | 2000 A | 2500 A | 2820 A | 2820 A | 3340 A |
| Size of bars (mm) | 60 x 5 | 80 x 5 | 60 x 5 | 80 x 5 | 50 x 10 | 60 x 10 | 80 x 10 | 50 x 10 | 60 x 10 | 80 x 10 | 80 x 10 | 100 x 10 | 120 x 10 | |
| Number of bars per phase | 1 | | | | 1 | | | | 2 | | 2 | | 2 | |
| Catalog numbers | LVS 04516 | LVS 04518 | LVS 04516 | LVS 04518 | LVS 04525 | LVS 04526 | LVS 04528 | LVS 04525 | LVS 04526 | LVS 04528 | LVS 04528 | LVS 04550 (1) | LVS 04552 (1) | |

| Busbar supports | | | | | | | | | | | | | |
|---|--------------------|---|----------|-----|-----|---|---------|-------|-------|--|--|--------------|---------------------|
| | Description | Drilled bars. Three fixed supports are required to maintain the busbars. If more than three supports are required, use additional free supports. The bottom support maintains the bars in position. It is not considered a busbar support. Note: In case of 600 mm depth with 115 mm between centers, replace LVS04661 fixed support by LVS04668 and LVS04662 free support by LVS04678 and LVS04663 or LVS04666 bottom support by LVS04673. | | | | | | | | | | | |
| | Number of supports | ≤ 15 | 3 | | | 3 | | | 2 x 3 | | | | |
| | ≤ 25 | 3+2 | | | 3 | | | 2 x 3 | | | | | |
| | ≤ 30 | 3+2 | | | 3 | | | 2 x 3 | | | | | |
| | ≤ 40 (kA rms/1 s) | 3+4 | | | 3+2 | | | 2 x 3 | | | | | |
| | ≤ 50 | 3+4 | | | 3+2 | | | 2 x 3 | | | | | |
| ≤ 60 | | | | 3+4 | | | 2 x 3+2 | | | | | | |
| ≤ 65 | | | | 3+4 | | | 2 x 3+2 | | | | | | |
| ≤ 75 | | | | 3+6 | | | 2 x 3+2 | | | | | | |
| ≤ 85 | | | | | | | 2 x 3+2 | | | | | | |
| In duct W150, W = 300 busbar supports 75 mm between centres | Catalog numbers | Fixed support | LVS04661 | | | | | | | | | 2 x LVS04661 | LVS04661 + LVS04671 |
| | | Free support | LVS04662 | | | | | | | | | 2 x LVS04662 | LVS04662 + LVS04671 |
| | | Bottom support | LVS04663 | | | | | | | | | 2 x LVS04663 | LVS04666 + LVS04661 |

| Connections to the horizontal Linery BS busbars | | | | | | | | | | | | | |
|--|---------|----------|--------|--------|---|---------|---------------------|---------------------|---------|---------|---------------------------|----------|------------------|
| Characteristics | | | | | Catalog numbers LVS04636 and LVS04637 include 1 connection only. Order 1 connection per phase. Reference LVS04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws. | | | | | | | | |
| | | | | | 1 bar per phase | | | 2 bars per phase | | | double BB | | 2 bars per phase |
| Size of vertical bars (mm) | 60 x 5 | 80 x 5 | 60 x 5 | 80 x 5 | 50 x 10 | 60 x 10 | 80 x 10 | 50 x 10 | 60 x 10 | 80 x 10 | 80 x 10 | 100 x 10 | 120 x 10 |
| Catalog number of the connecting part according to the size of the horizontal bars | ≤ 80 mm | LVS04782 | | | LVS04636 | | LVS04637 | LVS04637 | | | 2x LVS04637 | LVS04645 | LVS 04645 |
| | 100 mm | LVS04782 | | | LVS04636 + LVS04642 | | LVS04637 + LVS04642 | LVS04637 + LVS04642 | | | 2x LVS04637 + 2x LVS04642 | LVS04645 | LVS 04645 |
| | 120 mm | LVS04782 | | | LVS04638 | | LVS04638 | LVS04638 | | | 2x LVS04638 | LVS04645 | LVS04645 |

(1) Copper plain bars, 2000 mm length.

| | Drilling diagram for horizontal busbars, 5 mm thick. | Drilling diagram for horizontal busbars, 10 mm thick. |
|--|--|---|
| | | |

Note: for more information > page G-39.

Linergy LGY

Rear profiles up to 1600 A

Power busbars

| Linergy LGY profiles | | Up to 1600 A | | | | |
|--|---------|-----------------|-----------------|-----------------|-----------------|-----------------|
| At the rear of the cubicle | | W650 | | | | |
| Linergy profile, 1670 mm length | | | | | | |
| | | 630 A | 800 A | 1000 A | 1250 A | 1600 A |
| Permissible current for an ambient temperature of 35 °C around the switchboard | IP ≤ 31 | 680 A | 840 A | 1040 A | 1290 A | 1650 A |
| | IP > 31 | 590 A | 760 A | 950 A | 1170 A | 1480 A |
| Number of profiles per phase | | 1 | | | | |
| Catalog numbers | | LVS04502 | LVS04503 | LVS04504 | LVS04505 | LVS04506 |

| Busbar supports | | Fixed support LVS04652 | | | | |
|------------------------|---|------------------------|-----------------|--|---|--|
| | Number of supports | ≤ 25 | 3 | | | |
| | depending on I _{cw} (kA rms/1 s) | ≤ 30 | - | | 4 | |
| | | ≤ 40 | - | | 5 | |
| | | ≤ 50 | - | | 7 | |
| Characteristics | | | | | | Stop to be installed on the bottom support. LVS01109 (set of 12). |
| Catalog numbers | | Fixed support | LVS04652 | | | |
| | | Chock | LVS01109 | | | |

| Connections to the horizontal Linergy BS flat busbars | | Connection LVS04635 to horizontal busbars 5 mm thick. | | Connection LVS04636 to horizontal busbars 10 mm thick. | |
|---|-----------------|--|----------------------------|--|--|
| Characteristics | | Mounting hardware supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed. | | | |
| Cat. no. according to horizontal busbar size | Thickness 5 mm | LVS04635 | | | |
| | Thickness 10 mm | W ≤ 80 mm | LVS04636 | | |
| | | W > 80 mm | LVS04636 + LVS04642 | | |

| Connections to the horizontal Linergy LGYE flat busbars | | Connection LVS04602 to horizontal Linergy LGYE busbars 5 mm thick. | |
|---|--|--|--|
| Characteristics | | Mounting hardware supplied, order 1 connection per phase. For part of the connection, flexible insulated busbars are needed. | |
| Catalog numbers | | LVS04602 | |



Linergy BS

Rear busbars up to 1600 A

Power busbars

Flat bars

| | | Up to 1600 A | | | | | | |
|--|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| At the rear of the cubicle | | L650 | | | | | | |
| Copper with holes, 1670 mm length | | | | | | | | |
| Permissible current for an ambient temperature of 35 °C around the switchboard | | 800 A | 1000 A | 1400 A | 1800 A | 1000 A | 1200 A | 1600 A |
| Size of bars (mm) | | 60 x 5 | 80 x 5 | 60 x 5 | 80 x 5 | 50 x 10 | 60 x 10 | 80 x 10 |
| Number of bars per phase | | 1 | | 2 | | 1 | | |
| Catalog numbers | | LVS04516 | LVS04518 | LVS04516 | LVS04518 | LVS04525 | LVS04526 | LVS04528 |

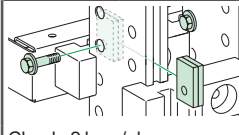
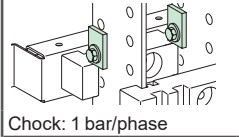
Busbar supports

Fixed busbar supports **LVS04653**

Free busbar supports **LVS04662**

Mounting chocks **LVS04669**

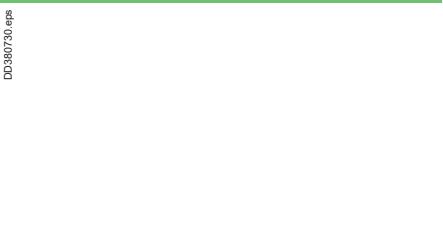
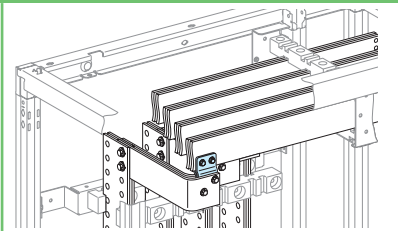
Characteristics
 Three fixed supports cat. no. LVS04653 are required to maintain the busbars. If more than three supports are required, use additional free supports cat. no. LVS04662. A metal mounting chock, cat. no. LVS04669 (set of 100) 5 mm thick, is screwed to the bar. It rests on a fixed support and maintains the position of the bar.



| Number of supports depending on I _w (kA rms/1 s) | ≤ 15 | ≤ 25 | ≤ 30 | ≤ 40 | ≤ 50 | ≤ 60 | ≤ 65 | ≤ 75 | ≤ 85 |
|---|------|------|------|------|------|------|------|------|------|
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 3+2 | 3+2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 3+4 | 3+4 | 3+2 | 3+2 | 3+2 | 3+2 | 3+4 | 3+4 | 3+6 | - |
| - | - | 3+4 | 3+2 | 3+2 | 3+2 | 3+4 | 3+4 | 3+6 | - |
| - | - | - | - | - | - | - | - | - | - |

Catalog numbers LVS04653 (fixed) + LVS04662 (free) + LVS04669 (chock)

Connections to the horizontal Linergy BS flat busbars



Characteristics
 Connection **LVS04636** to horizontal busbars. Thickness 5 mm
 Connection **LVS04636** to horizontal busbars. Thickness 10 mm
 For part of the connection, flexible insulated busbars are needed. Catalog numbers **LVS04635** and **LVS04636** include 1 connection only = 1 connection per phase. Reference LVS04642 consists of 2 M8 x 140 screws which can replace the original M8 x 120 screws.

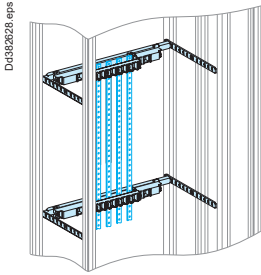
| Catalog numbers according to horizontal busbar size | Thickness 5 mm | | LVS04635 |
|---|----------------|-----------|-------------------------|
| | Thickness | W ≤ 80 mm | LVS04636 (1) |
| | 10 mm | W > 80 mm | LVS04636 + LVS04642 (1) |

(1) To be made.

Linergy BS

Rear busbars up to 630 A

Power busbars

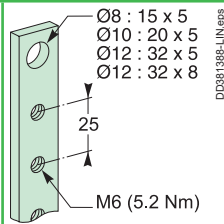


IEC 61439-1 & 2

Description

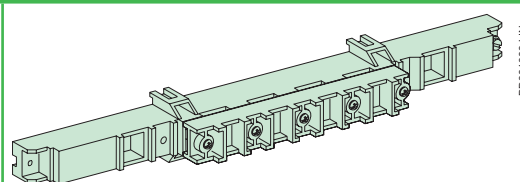
The busbar can be 3-pole or 4-pole with ratings between 160 A and 630 A. 2 lengths are available: 1000 and 1400 mm, which can be cut as required. The number of supports depends on the installation maximum rated current. The insulating supports can receive a fifth bar, 15 x 5 mm or 20 x 5 mm, to create an earth bar.

160 to 400 A copper busbars



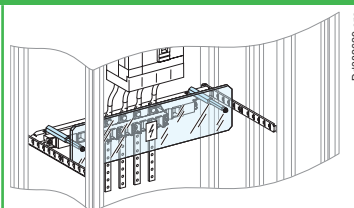
| | 160 A | 250 A | 400 A | 630 A | | | |
|---|---|------------------------|-------------------------|-------------------------|----------|----------|----------|
| Rated peak withstand current (I _{pk}) | 30 kÅ | 40 kÅ | 55 kÅ | 77 kÅ | | | |
| Rated insulation voltage (U _i) | 1000 V AC | 1000 V AC | 1000 V AC | 1000 V AC | | | |
| Rated short-time current (I _{cc}) | 150 kA | 150 kA | 150 kA | 150 kA | | | |
| Thermal stress (I ² .t) | 1.000 x 10 ⁸ | 2.25 x 10 ⁸ | 6.250 x 10 ⁸ | 1.225 x 10 ⁹ | | | |
| Conductor cross-section | 15 x 5 mm | 20 x 5 mm | 32 x 5 mm | 32 x 8 mm | | | |
| Installation | Threaded M6 holes every 25 mm all the way up Connection by: 16 to 50 mm ² flexible cables with crimped lugs | | | | | | |
| Set of | 4 | | | | | | |
| Length (mm) | 1000 | 1400 | 1000 | 1400 | 1000 | 1400 | 1400 |
| Catalog numbers | LVS04161 | LVS04171 | LVS04162 | LVS04172 | LVS04163 | LVS04173 | LVS04174 |

Insulating busbar support



| Distance between supports depending on I _{cw} /I _{pk} (1) | ≤ 10 kA eff / 1 s | ≤ 13 kA eff / 1 s | ≤ 15 kA eff / 1 s | ≤ 20 kA eff / 1 s | ≤ 25 kA eff / 1 s | ≤ 30 kA eff / 1 s | ≤ 35 kA eff / 1 s |
|---|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 450 mm | 450 mm | 450 mm | 450 mm | 450 mm | 450 mm | 450 mm |
| | - | 450 mm | 450 mm | 450 mm | 450 mm | 450 mm | 450 mm |
| | - | 450 mm | 450 mm | 450 mm | 450 mm | 450 mm | 450 mm |
| | - | - | - | 300 mm | 300 mm | 300 mm | 300 mm |
| | - | - | - | 225 mm | 225 mm | 225 mm | 225 mm |
| | - | - | - | - | - | 225 mm | 225 mm |
| | - | - | - | - | - | - | 175 mm |
| Installation | On the rear uprights Screwed onto a solid or pre-slotted plate (fixing centres 450 x 200 mm) | | | | | | |
| Catalog numbers | LVS04191 | LVS04191 | LVS04191 | LVS04191 | LVS04191 | LVS04191 | LGY4193 |

IPxxB insulating protective shield



| | |
|-----------------|------------------------|
| Length | 470 mm |
| Height | 100 mm |
| Composition | Supplied with fixings. |
| Catalog numbers | LVS04198 |

Note: electrical characteristics > page G-39.

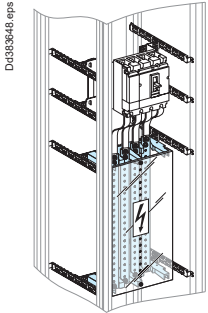
(1) Linergy FM 200 A distribution blocks with connections ref. LVS04029 can act as intermediate supports (max. distance apart 200 mm) in addition to the support ref. LVS04191 at the top and bottom.

Version : 14 - 15/12/2023
160E7100

Linergy BS

Multi-stage busbars up to 630 A

Power busbars



IEC 61439-1 & 2

Description

Multi-stage busbars are installed in a sheath W = 400 mm.

We strongly recommend dividing the current between 2 cubicles or enclosures joined on either sides.

All the connection points are easily accessible from the front.

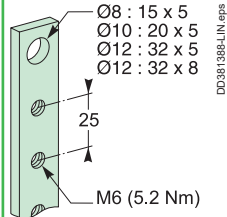
The busbar orientation makes them easier to tighten and facilitates running the cables between them.

The current can be 3-pole or 4-pole with ratings between 160 A and 630 A.

2 lengths are available: 1000 and 1400 mm, which can be cut as required.

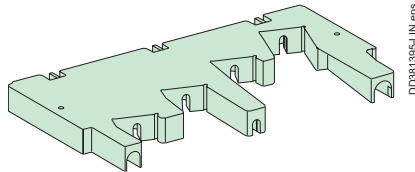
The number of supports depends on the installation maximum rated current.

160 to 630 A copper busbars



| | 160 A | 250 A | 400 A | 630 A | | | | |
|---|--|-------------------------|--------------------------|-------------------------|----------|----------|------------|----------|
| Rated peak withstand current (I _{pk}) | 30 kÅ | 40 kÅ | 55 kÅ | 55 kÅ | | | | |
| Rated insulation voltage (U _i) | 750 V AC | 750 V AC | 750 V AC | 750 V AC | | | | |
| Rated short-time current (I _{cc}) | 150 kA | 150 kA | 150 kA | 150 kA | | | | |
| Thermal stress (I ² .t) | 1.000 x 10 ⁸ | 1.690 x 10 ⁸ | 4.000 x 10 ⁸ | 6.250 x 10 ⁸ | | | | |
| Rated short-time withstand current (I _{cw}) | 10 kA rms/1 second | 13 kA rms/1 second | 15/20/25 kA rms/1 second | 35 kA rms/1 second | | | | |
| Supply at incoming terminals | Connection by: 16 to 50 mm ² flexible cables with crimped lugs. | | | | | | | |
| Conductor cross-section | 15 x 5 mm | 20 x 5 mm | 32 x 5 mm | 32 x 8 mm | | | | |
| Installation | Flat copper busbar with threaded M6 holes every 25 mm all the way up. | | | | | | | |
| Set of | 4 | | | | | | | |
| Width (mm) | 1000 | 1400 | 1000 | 1400 | 1000 | 1400 | 1000 | 1400 |
| Catalog numbers | LVS04161 | LVS04171 | LVS04162 | LVS04172 | LVS04163 | LVS04173 | To be made | LVS04174 |

Insulating busbar support

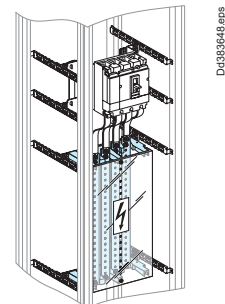


| Distance between supports depending on I _{cw} /I _{pk} | ≤ 10 kA rms/ 1 s / 30 kÅ | ≤ 13 kA rms/ 1 s / 40 kÅ | ≤ 15 kA rms/ 1 s / 40 kÅ | ≤ 20 kA rms/ 1 s / 45 kÅ | ≤ 25 kA rms/ 0.6 s / 55 kÅ | ≤ 25 kA rms/ 1 s / 55 kÅ |
|---|--------------------------|--------------------------|--------------------------|--------------------------|----------------------------|--------------------------|
| 450 mm | - | 450 mm | - | - | - | - |
| 450 mm | - | 450 mm | - | - | - | - |
| 450 mm | - | 450 mm | - | 450 mm | - | - |
| 450 mm | - | 450 mm | - | 300 mm | - | - |
| 300 mm | - | 300 mm | - | 300 mm | - | - |
| 300 mm | - | 300 mm | - | - | - | 300 mm |

Installation: Installation on functional uprights of duct (PrismaSeT).
Screwed onto a solid or pre-slotted plate (450 x 200 mm fixing centres)

| Catalog numbers | LVS04192 | LVS04192 | LVS04192 | LVS04192 |
|-----------------|----------|----------|----------|----------|
|-----------------|----------|----------|----------|----------|

IPxxB insulating protective shield



| | |
|-----------------|---|
| Width | 250 mm |
| Height | 1500 mm |
| Composition | Fixing accessories supplied with support cat. no. LVS04192. |
| Catalog numbers | LVS04197 |

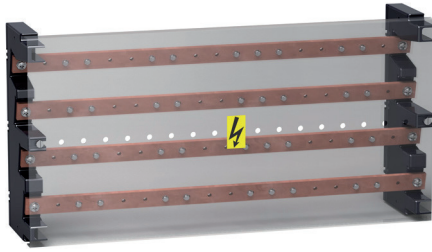
Note: electrical characteristics > page G-39.

Linergy BS

Multi-stage distribution block up to 630 A

Power busbars

PE602514_00.eps



IEC 61439-1 & 2

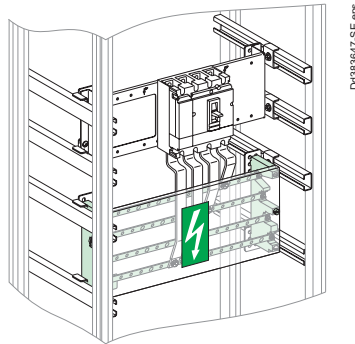
Description

The distribution block can be installed horizontally in the device zone or vertically in the 300 mm wide duct of enclosures and cubicles.

The distribution block is made up of:

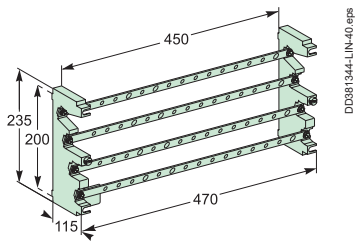
- two staggered supports made of an insulating material
- four slanted copper bars with holes every 25 mm.

Multi-stage distribution block



| | | 160 A | 250 A | 400 A | 630 A |
|---------------------------------|---------------------|--|-------------------------|-------------------------|-------------------------|
| Rated peak withstand current | (Ipk) | 30 kÅ | 40 kÅ | 55 kÅ | 55 kÅ |
| Rated insulation voltage | (Ui) | 750 V AC | | | |
| Rated operational voltage | (Ue) | 440 V AC | | | |
| Rated impulse withstand voltage | (Uimp) | 8 kV | | | |
| Rated short-time current | (Icc) | 150 kA | 150 kA | 150 kA | 150 kA |
| Thermal stress | (I ² .t) | 1.000 x 10 ⁸ | 1.690 x 10 ⁸ | 4.000 x 10 ⁸ | 6.250 x 10 ⁸ |
| Total connection capacity | | 4 incomers per phase: Ø12.2 mm clearance holes 13 outgoing per phase 16 to 50 mm ² : M6 tapped holes | | | |
| Busbar cross-section | | 15 x 5 mm | 20 x 5 mm | 32 x 5 mm | 32 x 8 mm |

Dimensions (mm)



| | |
|-----------------|---|
| Installation | Screwed onto a solid or pre-slotted plate (fixing centres 450 x 200 mm) Screwed to an adapter cat. no. LVS03595 . |
| Composition | 2 multi-stage supports made of an insulating material 4 slanted copper busbars, with holes every 25 mm 1 pack of 36 M6 x 16 screws + contact washers 1 IPxxB front insulating shield |
| Catalog numbers | LVS04052 LVS04053 LVS04054 LVS04055 |

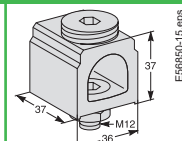
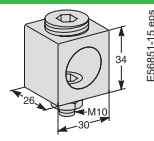
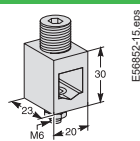


Linergy BS

Incomer accessories up to 630 A

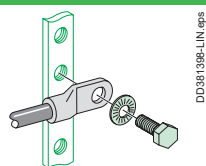
Power busbars

Incomer accessories



| Connectors for copper or aluminium cables | | | |
|---|--------------------------------------|---------------------------------|---------------------------------|
| Rated operational current at 40 °C (Ie) | 160 A | 250 A | 400 A |
| Supply at incoming terminals | 70 mm ² Cables | 16 - 185 mm ² Cables | 70 - 300 mm ² Cables |
| Composition | Supplied with fixings at busbar end. | | |
| Set of | 4 | | |
| Catalog numbers | LVS07051 | LVS07052 | LVS07053 |

Outgoer accessories



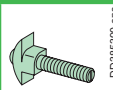
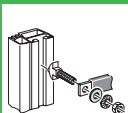
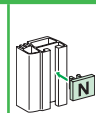
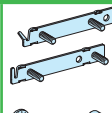

| Class 8.8 fixing accessories | | |
|------------------------------|---|---|
| Composition | 20 M6 x 20 screws + 20 nuts + 40 contact washers | 40 M6 x 16 screws + 40 contact washers |
| Catalog numbers | LVS04194 | LVS04195 |

Note: electrical characteristics > page G-39.

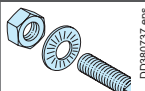
Linergy Busbars

Accessories


Power busbars

| Accessories | | | | | | | | | | | |
|-----------------|---|-----------------|---|-----------------|-----------------|--|---|--|---|--|--|
| |  DD386390.eps | |  DD381219-LIN-16.eps | | |  DD381222-LIN-10.eps | |  DD386391.eps | |  DD386392.eps | |
| | Linergy connection hardware | | Steel flat washers | | | Brass flat washers | | Markers | | Screwplate | |
| Cat. no. | LVS04766 | LVS04767 | LVS04772 | LVS04773 | LVS04774 | LVS04775 | LVS04794 | LVS01130 | LVS04768 | LVS04769 | |
| Characteristics | L 25 mm | L 39 mm | 20 mm ext. Ø | 24 mm ext. Ø | 28 mm ext. Ø | 20 mm ext. Ø | | 2 studs | 2 studs | 3 studs | |
| | Set of 20: 20 bolts + 20 nuts + 20 contact washers, class 8.8. The screws slide into the profile and are then locked in the desired position. | | M8 set of 20 | | | M8 sold in lots of 20 for connection of ≤ 25 mm ² lugs to Linergy | 12 clip-on supports + N, L1, L2, L3, PE, PEN labels | Linergy LGYE busbars connection kit spare part | Set of 12 flat plates with 2 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile. | Set of 8 flat plates with 3 studs + 24 torque nuts + 24 contact washers. The plates slide along the profile. | |

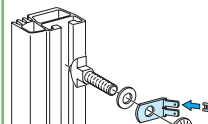
M8 bolts

| | | |
|--------------------------------|--|---|
| |  DD380737.eps | |
| Linergy BS, 20 bolts class 8.8 | Characteristics | Set of 20 bolts + 20 nuts + 40 contact washers. |
| | Catalog numbers | LVS04782 |
| | M8 x 20 | LVS04783 |
| | M8 x 25 | LVS04784 |
| | M8 x 30 | LVS04785 |
| | M8 x 35 | LVS04786 |
| | M8 x 40 | LVS04787 |
| | M8 x 45 | LVS04788 |
| | M8 x 50 | LVS04788 |

Torque nuts

| | | |
|-------------------|--|---|
| |  DD380735.eps | |
| 20 M8 torque nuts | Characteristics | Can be used to obtain the correct tightening torque (28 Nm) recommended by the manufacturer, without using a torque wrench. Torque nuts may be used for all electrical connections. |
| | Catalog numbers | LVS04759 |

Voltage tap-offs

| | | |
|---|--|--|
| |  DD380736.eps | |
| 20 Voltage tap-offs M10 pour 2 clips 6.35 | Characteristics | For small lugs (on low-current cables or measurement tap-offs), insert a conducting washer (cat. no. LVS04775) between the busbar and the lug. |
| | Catalog numbers | LVS04229 |



★ Connections on Linergy LGYE & LGY

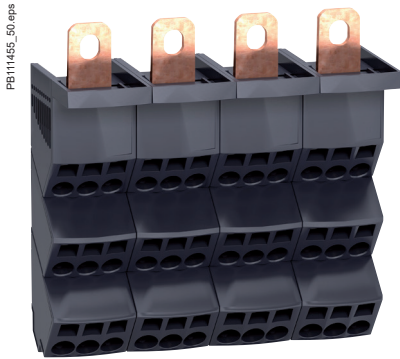
| InA (A) | | Connecting to Linergy LGYE | Connecting to Linergy LGY |
|--------------|---------------------------------|--|--|
| 0 to 630 | Cable - Insulated flexible bars | 25 mm Linergy connection hardware used | 25 mm Linergy connection hardware used |
| 800 to 1250 | 5 mm bars | 25 mm Linergy connection hardware used | 25 mm Linergy connection hardware used |
| 1600 to 2500 | 5 mm or 10 mm bars | Use of the 2 studs flat plate | 39 mm Linergy connection hardware used |
| 3200 to 4000 | 10 mm bars | Use of the 3 studs flat plate | - |

Note: Jointing between 2 busbars (horizontal/vertical or horizontal/horizontal) must be mandatory done with studs plates.

LinerGY DP

Quick distribution blocks - ComPacT NSX and INS-INV up to 250 A

Distribution blocks



IEC 60947-7-1, IEC 61439-1 and 2

Description

The Linergy DP quick distribution block is designed for installation directly downstream of ComPacT NSX and INS-INV up to 250 A. It can also be clipped onto a modular rail.

Advantages

- It is quick to mount in the horizontal position. Electrical connections are made directly to the device terminals.
- It is the same width as the devices and does not take up any additional space in the switchboard.
- The connection terminals are slanted to facilitate cable entry and avoid exceeding the bending radius of the flexible and rigid cables.

| Quick distribution blocks for ComPacT devices | | | Additional block | |
|---|---|---|---|--|
| Number of poles | 3P | 4P | 3P/4P | |
| | | | | |
| Rated operational current (Ie) | 250 A | 250 A | 250 A | |
| Rated peak withstand current (Ipk) | 30 kA | 30 kA | 30 kA | |
| Rated short-time current (Icw) | 8.5 kA rms/1 s | 8.5 kA rms/1 s | | |
| Thermal stress (I ² .t) | 7.225 x 10 ⁷ | 7.225 x 10 ⁷ | | |
| Total connection capacity, outgoing terminals | 27 connections: 6 x 10 ² /phase 3 x 16 ² /phase | 36 connections: 6 x 10 ² /phase 3 x 16 ² /phase | 2 connections: 2 x 35 ² /pole | |
| Incomer terminals | 1 cable lug 120 mm ² per pole | | | |
| Dimensions (H x W x D) | 105 x 138 x 63 | 140 x 138 x 64 | | |
| Installation | On mounting plate or DIN rail | | On mounting plate | |
| Product certifications | ASEFA | | | |
| Standard for installation inside PrismaSeT | IEC 61439-1-2 | | | |
| Glow-wire 60695-2-11 | 960 °C | | | |
| Catalogue numbers | LVS04033 | LVS04034 | LVS04155 (3P) LVS04156 (4P) | |

| Technical Data | |
|--|--|
| Common characteristics | |
| Rated conditional short-circuit current of an assembly (Isc) | The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested. |
| Rated insulation voltage (Ui) | 750 V AC |
| Rated operational voltage (Ue) | 690 V AC |
| Rated impulse withstand voltage (Uimp) | 8 kV |
| Network frequency | 50/60 Hz |
| Degree of protection | IPxxB |
| Degree of pollution | 3 |
| Overvoltage category | III |
| Additional technical characteristics | |
| Reference temperature | 40 °C |
| Operating temperature | -25 °C to 55 °C |

Installation

It can also be mounted downstream of vertically mounted **ComPacT NSX100/250** and **ComPacT INS-INV250** devices in the enclosures. In this case, the Linergy DP is mounted on a depth-adjustable modular rail.

Directly on the mounting plates of horizontally mounted **ComPacT NSX100/250** and **ComPacT INS-INV250** devices in the enclosures.

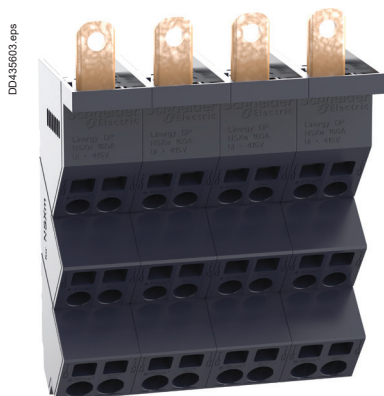
For details on mounting plates, refer [pages E-20, E-21, E-22, E-23, and E-24](#).

Note: Electrical characteristics > [page G-39](#).

Linergy DP

Quick distribution blocks - ComPacT NSXm up to 160 A

Distribution blocks



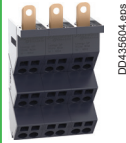
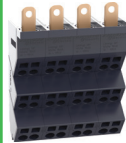
IEC 60947-7-1, IEC 61439-1 and 2

Description

■ The Linergy DP quick distribution block is designed for installation directly downstream of ComPacT NSXm up to 160 A. It can also be clipped onto a modular rail.

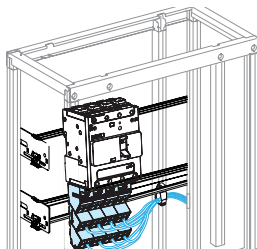
Advantages

- It is quick to mount in the horizontal position. Electrical connections are made directly to the device terminals.
- It is the same width as the devices and does not take up any additional space in the switchboard.
- The connection terminals are slanted to facilitate cable entry and avoid exceeding the bending radius of the flexible and rigid cables.

| Quick distribution blocks for ComPacT devices | | | |
|---|--------|---|---|
| Number of poles | | 3P | 4P |
| | |  |  |
| Rated operational current | (Ie) | 160 A | 160 A |
| Rated peak withstand current | (Ipk) | 20 kA | 20 kA |
| Rated short-time current | (Icc) | 70 kA | 70 kA |
| Thermal stress | (I².t) | 4.7 x 10⁶ A²S | 4.7 x 10⁶ A²S |
| Total connection capacity, outgoing terminals | | 18 connections: 4 x 10²/phase 2 x 16²/phase | 24 connections: 4 x 10²/phase 2 x 16²/phase |
| Incomer terminals | | 1 cable lug 70 mm² per pole | |
| Dimensions (H x W x D) | | 140 X 81 X 58 mm | 140 X 108 X 58 mm |
| Installation | | On mounting plate or DIN rail | |
| Product certifications | | ASEFA | |
| Standard for installation inside PrismaSeT | | IEC 61439-1-2 | |
| Glow-wire 60695-2-11 | | 960 °C | |
| Catalogue numbers | | LVS04038 | LVS04039 |

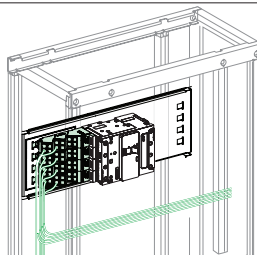
| Technical Data | | |
|--|--------|--|
| Common characteristics | | |
| Rated conditional short-circuit current of an assembly | (Isc) | The reinforced breaking capacity due to cascading in circuit-breaker combinations is maintained. The worst-case situations have been tested. |
| Rated insulation voltage | (Ui) | 800 V AC |
| Rated operational voltage | (Ue) | 690 V AC |
| Rated impulse withstand voltage | (Uimp) | 8 kV |
| Network frequency | | 50/60 Hz |
| Degree of protection | | IPxxB |
| Degree of pollution | | 3 |
| Oversoltage category | | III |
| Additional technical characteristics | | |
| Reference temperature | | 40 °C |
| Operating temperature | | -25 °C to 55 °C |

Installation



DD435606.eps

It can also be mounted downstream of vertically mounted **ComPacT NSXm** devices in the enclosures. In this case, the Linergy DP is mounted on a depth-adjustable modular rail.



DD435607.eps

Directly on the mounting plates of horizontally mounted **ComPacT NSXm** devices in the enclosures.

For details on mounting plates, refer [page E-35](#).

Note: Electrical characteristics > page G-39.

LinerGY FC

Feeders for ComPacT NSX and INS-INV up to 250 A

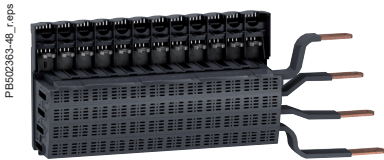
Device feeders



IEC 61439-1 and 2

Description

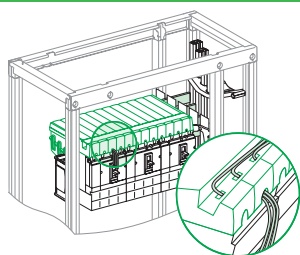
LinerGY FC is an insulated horizontal distribution block. It connects directly to the mounting plate and can supply:

- Three 4P and four 3P ComPacT NSX circuit breakers, whatever the ratings (100, 160 or 250 A), the operating systems (toggle, rotary handle, motor mechanism), whether fixed or plug-in, front or rear connection (the circuit breakers must be equipped with long terminal shields downstream)
- Three 4P or four 3P ComPacT INS-INV switch-disconnectors, whatever the ratings (100, 160 or 250 A), whether front or rear connection.
- The design and small size blend thoroughly with the devices.
- It can be supplied by Linergy BS or Linergy LGY busbars positioned to the left or right.
- Fully insulated, Linergy FC helps to protect life and property. Numerous and well distributed vents ensure natural convection and optimum cooling of the conductors.
- The circuit breakers can be easily connected from the front. It is simple to interchange a device or to add a device in a reserve slot.
- There are markings (N, L1, L2, L3) on the front and the sides for the phases.
- The running of auxiliary cables between the devices and the corresponding terminal blocks is also taken into account. Spacious trunking is built into the blocks for the auxiliary wiring.

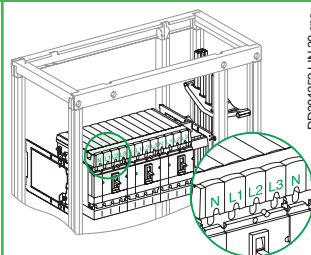


| | ComPacT NSX100/250 & INS-INV250 - Toggle, fixed | | ComPacT NSX100/250 - Rotary handle, motor mechanism - plug-in, fixed, ComPacT NSX100/250 - All controls, withdrawable | | ComPacT NSX100/250 & INS-INV250 - All controls, fixed and withdrawable | |
|---|---|----------|---|----------|---|--------------|
| |  | |  | |  | |
| | LinerGY FC with prefabricated connections by insulated flexible bars (1) | | LinerGY FC with prefabricated connections (1) | | LinerGY FC without prefabricated connections (1) | |
| Number of poles | 3P | 4P | 3P | 4P | 3P | 4P |
| Connection to | LinerGY LGY busbars | | LinerGY BS, Linergy LGY or Linergy LGYE busbars | | LinerGY BS, Linergy LGY or Linergy LGYE busbars | |
| Number of devices | 4 | 3 | 4 | 3 | 4 | 3 |
| Composition | Self-adhesive labels to mark the phases for connections to the busbars. | | | | | |
| Mounting plates | | | | | | |
| Toggle, Fixed, NSX100/250 | LVS03420 | LVS03420 | - | - | LVS03420 | LVS03420 |
| Toggle, Plug-in, NSX100/250 | - | - | LVS03423 | LVS03423 | LVS03423 | LVS03423 |
| Rotary handle, motor mechanism - plug-in, Fixed, NSX100/250 | - | - | LVS03422 | LVS03422 | LVS03422 | LVS03422 |
| Cat. no. | LVS04403 | LVS04404 | LVS04405 | LVS04406 | LVS04407 (2) | LVS04408 (2) |

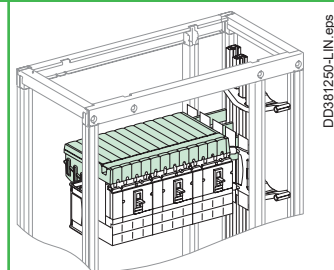
Implementation



Auxiliary wires running in the built-in trunking.



Phase marking on the front of the distribution block.



(1) The connection of a LinerGY FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit (LVS04924).

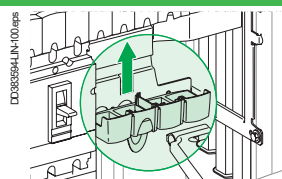
(2) For the connection, use insulated flexible bars, 32 x 8 mm cat. no. LVS04753; Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

Linerger FC

Feeders for ComPacT NSX and INS-INV up to 250 A

Device feeders

Accessories



Tooth caps

The caps block off the reserve terminals on a Linergy FC distribution block. Made of an insulating material, they simply clip on from the front.

Catalogue numbers

LVS04809

Characteristics

Common characteristics

| | | |
|--|--------|--|
| Rated operational current at 40° | (Ie) | Distribution-block derating follows the normal derating curves of ComPacT NSX and INS-INV |
| Rated conditional short-circuit current of an assembly | (Isc) | The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. The electrical characteristics are perfectly compatible with the connected devices. Neither the temperature derating curves nor the performance levels of the circuit breakers and switch-disconnectors are altered. |
| Rated insulation voltage | (Ui) | 750 V AC |
| Rated operational voltage | (Ue) | 690 V AC |
| Rated impulse withstand voltage | (Uimp) | 8 kV |
| Rated peak withstand current | (Ipk) | 50 kA rms |
| Rated short-time current with upstream protection of 85 kA Icc | (Icc) | 85 kA |
| Thermal stress | (I².t) | 2.500 x 10 ⁷ |
| Rated conditional short-circuit current of an assembly | | Short-circuit withstand current compatible with the breaking capacity of the ComPacT NSX circuit breakers connected to the distribution block. |

Linerger FC selection table for special cases

For most installations, the temperature around the switchboard is 40 °C, corresponding to an average temperature of 60 °C inside the switchboard.

Under certain conditions, the temperature inside the switchboard may be different.

(A) Rated operational current as a function of the temperature inside the switchboard

| Temperature (°C) | | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
|---------------------|----|-----|-----|-----|-----|-----|-----|-----|
| I _{nc} (A) | 3P | 800 | 800 | 775 | 750 | 725 | 700 | 675 |
| | 4P | 675 | 675 | 655 | 635 | 615 | 595 | 570 |

To obtain the maximum permissible current for the linergy FC, apply the diversity factor K:

- Linergy FC 3P: K = 0.8
- Linergy FC 4P: RDF = 0.9.

Linergy FC

Feeders for ComPacT NSXm up to 160 A

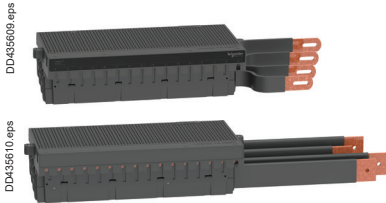
Device feeders




IEC 61439-1 and 2

Description

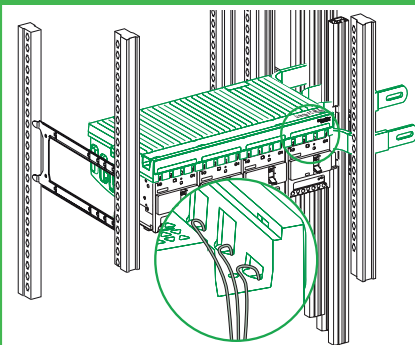
Linergy FC is an insulated horizontal distribution block. It connects directly to the mounting plate and can supply:

- Four 4P and five 3P ComPacT NSXm circuit breakers (four 3P and 4P for ComPacT NSXm Vigi), whatever the ratings (63, 100 or 160 A) with toggle and direct rotary handle operating mechanism.
- The design and small size blend thoroughly with the devices.
- It can be supplied by Linergy BS, Linergy LGYE and Linergy LGY busbars positioned to the left or right.
- Fully insulated, Linergy FC helps to protect life and property. Numerous and well distributed vents ensure natural convection and optimum cooling of the conductors.
- The circuit breakers can be easily connected from the front. It is simple to interchange a device or to add a device in a reserve slot.
- There are markings (N, L1, L2, L3) on the front and the sides for the phases.
- The running of auxiliary cables between the devices and the corresponding terminal blocks is also considered. Spacious trunking is built into the blocks for the auxiliary wiring.

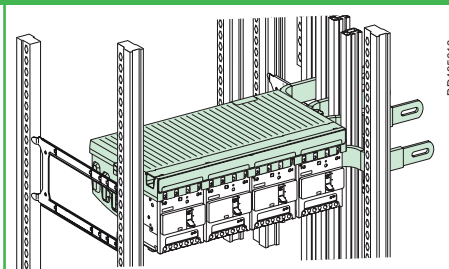


| | ComPacT NSXm - Toggle (with Everlink terminal) | | ComPacT NSXm - Toggle/ DRH (with Everlink terminal) | | | |
|-------------------|---|----------|---|----------|---|--------------|
| |  | |  | |  | |
| | Linergy FC with prefabricated connections by insulated flexible bars (1) | | Linergy FC with prefabricated connections (1) | | Linergy FC without prefabricated connections (1) | |
| Number of poles | 3P | 4P | 3P | 4P | 3P | 4P |
| Connection to | Linergy LGY busbars | | Linergy BS and Linergy LGYE busbars | | | |
| Number of devices | 5 (2) | 4 | 5 (2) | 4 | 5 (2) | 4 |
| Mounting plates | LVS03416 | LVS03416 | LVS03416 | LVS03416 | LVS03416 | LVS03416 |
| Cat. no. | LVS04410 | LVS04411 | LVS04412 | LVS04413 | LVS04419 (3) | LVS04420 (3) |
| | LVS04416 (3) | | LVS04417 | | LVS04418 (3) (4) | |

Implementation



Auxiliary wires running in the built-in trunking.



(1) The connection of a Linergy FC distribution block using pre-wired connectors or insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit (LVS04924).

(2) Linergy FC configuration having NSXm with Vigi can mount four devices in a row for both 3P and 4P.

(3) For the connection, use insulated flexible bars, 32 x 6 mm cat. no. LVS04752; Each connection must not be longer than 500 mm. This size is validated with Schneider Electric insulated flexible bars.

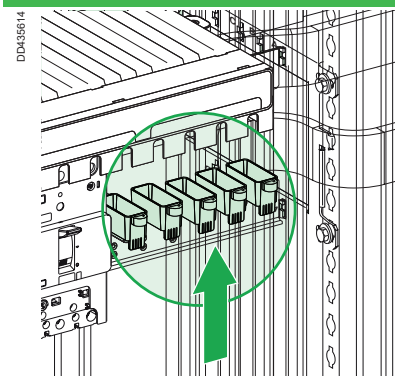
(4) The catalogue reference number is used only with NSXm Vigi.

Linergy FC

Feeders for ComPacT NSXm up to 160 A

Device feeders

Accessories



Tooth caps

The caps block off the reserve terminals on a Linergy FC distribution block. Made of an insulating material, they simply clip on and install the screw from the front.

Catalogue numbers

LVS04810

Characteristics

Common characteristics

| | | |
|--|--------|--|
| Rated operational current at 40° | (Ie) | Distribution-block derating follows the normal derating curves of ComPacT NSXm |
| Rated conditional short-circuit current of an assembly | (Isc) | The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. The electrical characteristics are perfectly compatible with the connected devices. Neither the temperature derating curves nor the performance levels of the circuit breakers and switch-disconnectors are altered. |
| Rated insulation voltage | (Ui) | 800 V AC |
| Rated operational voltage | (Ue) | 690 V AC |
| Rated impulse withstand voltage | (Uimp) | 8 kV |
| Rated peak withstand current | (Ipk) | 18 kA |
| Rated short-time current with upstream protection of 85 kA Icc | (Icc) | 50 kA |
| Thermal stress | (I².t) | 4.5 x 10⁶ A²S |
| Rated conditional short-circuit current of an assembly | | Short-circuit withstand current compatible with the breaking capacity of the ComPacT NSXm circuit breakers connected to the distribution block. |

Linergy FC selection table for special cases

For most installations, the temperature around the switchboard is 40 °C, corresponding to an average temperature of 60 °C inside the switchboard.

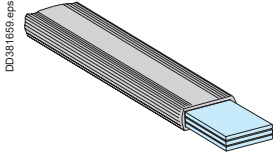
Under certain conditions, the temperature inside the switchboard may be different.

(A) Rated operational current as a function of the temperature inside the switchboard

| Ambient Air Temperature outside panel (°C) | | 35 | 40 | 45 | 50 |
|--|----|-----|-----|-----|-----|
| IP31 (A) | 3P | 600 | 575 | 550 | 525 |
| | 4P | 500 | 480 | 460 | 440 |
| IP55 (A) | 3P | 515 | 500 | 475 | 450 |
| | 4P | 460 | 440 | 420 | 400 |

Insulated flexible bars

Secondary distribution



The insulated flexible bars are tested in a type-tested switchboard environment. Their design takes into account the switchboard architecture where they are often in close proximity to a protection device (circuit breaker or fuse) with significant heat losses.

The sizes for the flexible bars indicated below take into account the heat losses of Schneider Electric devices in a PrismaSeT switchboard.

Characteristics

| | |
|---|---------|
| Length | 1800 mm |
| Rated insulation voltage (Ui) | 1000 V |
| Maximum withstand temperature for the insulating material | 125 °C |

Connection between device and busbars

The flexible bars are determined taking into account the connected device, whatever the internal temperature of the switchboard.

The bar sizes indicated below take into account the derating curves of devices.

| Devices | Size (mm) | Catalogue number |
|------------------|------------------|------------------|
| NSX100 | 20 x 2 | LVS04742 |
| NSX160/250 | 20 x 3 (1) | LVS04743 |
| NSX400 | 32 x 5 | LVS04751 |
| NSX630 | 32 x 8 (2) | LVS04753 |
| NSX100 ELCB | 20 x 2 | LVS04742 |
| NSX160/250 ELCB | 20 x 3 (1) | LVS04743 |
| NSX400 ELCB | 32 x 5 | LVS04751 |
| NSX630 ELCB | 32 x 8 (2) | LVS04753 |
| INS-INV125/160 | 20 x 2 | LVS04742 |
| INS-INV250 | 20 x 3 | LVS04743 |
| INS-INV400 | 32 x 5 | LVS04751 |
| INS-INV630 | 32 x 6 | LVS04752 |
| FM 200 A Linergy | 20 x 3 | LVS04743 |
| FC 3P Linergy | 32 x 8 (2)(3)(4) | LVS04753 |
| FC 4P Linergy | 32 x 8 (2)(3)(4) | LVS04753 |
| Fupact 250 | 24 x 5 | LVS04746 |
| Fupact 400 | 32 x 5 | LVS04751 |
| Fupact 630 | 32 x 8 (2) | LVS04753 |

(1) To connect a ComPacT NSX250 and NSX150 ELCB to Linergy BW busbars, use a 24 x 5 mm flexible bar (LVS04746).

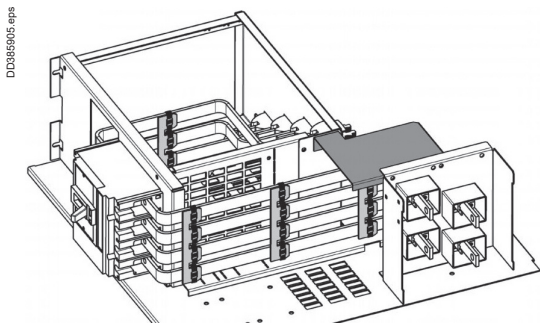
(2) The insulated flexible bars is not compatible with Form 2 partitioning (LVS04922). In this case, use the form 2 restoration kit LVS04924 > page H-5.

(3) In case of use of 32 x 6 insulated flexible bar, please contact Schneider Electric.

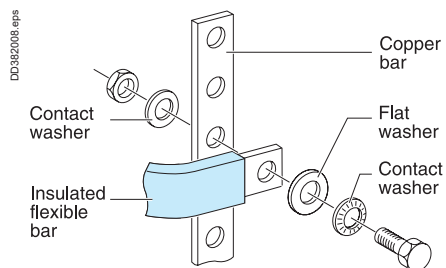
(4) Max length 500 mm per connection

The references 87646 (3P) and 87647 (4P) can be used up to 250 A, when binding of insulated flexible bars, to withstand Icw.

Note : For NSXm connection, there is no flat insulated flexible bar available. Choose a cable prefabricated connection > pages E-35 and pages E-36.



Secondary distribution



Connection between busbars

Copper flexible bars are designed for connections between busbars taking into account the following characteristics:

- a maximum temperature of 60 °C inside the switchboard. This corresponds to the average temperature inside a switchboard for an ambient temperature of 35 °C
- the maximum withstand temperature for the insulating material is 125 °C.

| le (1) max | Size (mm) | Catalogue numbers |
|------------|-----------|-------------------|
| 200 A | 20 x 2 | LVS04742 |
| 250 A | 20 x 3 | LVS04743 |
| 400 A | 24 x 5 | LVS04746 |
| 520 A | 32 x 5 | LVS04751 |
| 580 A | 32 x 6 | LVS04752 |
| 660 A | 32 x 8 | LVS04753 |

(1) Rated operational current.

Designing connections

> page G-20.

Linergy DX

Quick distribution blocks

Distribution blocks

IEC 60947-7-1, CEI 61439-2

Description

- Downstream circuits are connected from the front, to spring terminals.
- Contact pressure automatically adapts to the size of the conductor.
- Contacts are insensitive to vibrations and thermal variations.
- Only one cable (flexible or rigid) can be inserted per terminal.



Quick distribution blocks

| Number of poles | 4P, upstream incoming | 4P, downstream incoming |
|--|--|---|
| | | |
| Rated operational current at 40° (Ie) | 63 A | 63 A |
| Rated conditional short-circuit current of an assembly (Isc) | The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA with upstream protection of 150 kA Icc | |
| Rated peak withstand current (Ipk) | 10 kA | 10 kA |
| Rated insulation voltage (Ui) | 500 V AC | 500 V AC |
| Rated operational voltage (Ue) | 440 V AC | 440 V AC |
| Rated impulse withstand voltage (Uimp) | 6 kV | 6 kV |
| Rated short-time current (Icc) | 150 kA | 150 kA |
| Thermal stress (I².t) | 9.03 x 10⁶ | 9.03 x 10⁶ |
| Rated operational frequency | 50/60 Hz | 50/60 Hz |
| Degree of protection | IPxxB | IPxxB |
| Incoming terminals | 1 tunnel terminal 25²/phase | 1 tunnel terminal 25²/phase |
| Total connection capacity, outgoing terminals | 24 connections: 4 x 6²/phase 12 x 6²/neutre | 24 connections: 4 x 6²/phase 12 x 6²/neutre |
| Dimensions (H x W x D) | 96.5 x 72 x 62 8 x 9 mm pitch | 96.5 x 72 x 62 8 x 9 mm pitch |
| Installation | Clipped onto a DIN rail | Clipped onto a DIN rail |
| Others | | |
| Standard for installation inside PrismaSeT | IEC 61439-2 | IEC 61439-2 |
| Glow-wire 60695-2-11 | 960 °C | 960 °C |
| Degree of pollution | 3 | 3 |
| Catalogue numbers | LVS04040 | LVS04041 |

Accessories

| | | |
|--------------------------|---|---|
| Catalogue numbers | - | - |
|--------------------------|---|---|




Linergy DX

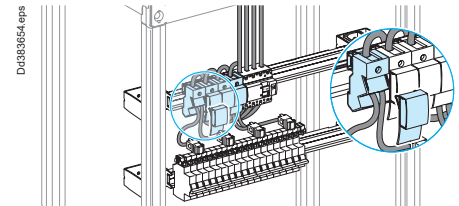
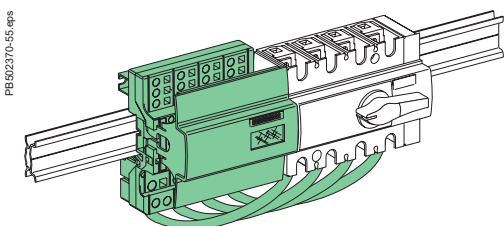
Quick distribution blocks

Distribution blocks

Advantages

- A reliable electrical connection, no maintenance required (tightness guaranteed over time).
- Quick connection.
- Easy phase balancing.
- Ease of rewiring if the switchboard is expanded or modified.

| 4P | | 1P | |
|--|--|---|--|
|  |  |  | |
| 125 A | 160 A | 160 A | |
| The reinforced breaking capacity due to cascading in circuit breaker combinations is maintained. The worst-case situations have been tested. 150 kA with upstream protection of 150 kA Icc | | | |
| 20 kA | 20 kA | 24 kA | |
| 750 V AC | 750 V AC | 750 V AC | |
| 690 V AC | 690 V AC | 690 V AC | |
| 8 kV | 8 kV | 8 kV | |
| 150 kA | 150 kA | 150 kA | |
| 2.025 x 10 ⁷ | 2.025 x 10 ⁷ | 3.025 x 10 ⁷ | |
| 50/60 Hz | 50/60 Hz | 50/60 Hz | |
| IPxxB | IPxxB | IPxxB | |
| 1 tunnel terminal 35 ² /phase | Supplied with a prefabricated flexible connection equipped with tunnel terminals (for INS-INV100/160 use adaptor 28947 (3P) 28948 (4P)) | 1 tunnel terminal 70 ² /phase | |
| 52 connections: 7 x 4 ² /phase 3 x 6 ² /phase 2 x 10 ² /phase 1 x 16 ² /phase (screw terminal) | 52 connections: 7 x 4 ² /phase 3 x 6 ² /phase 2 x 10 ² /phase 1 x 16 ² /phase (screw terminal) | 6 connections: 6 x 16 ² /phase | |
| 127 x 108 x 48 12 x 9 mm pitch | 127 x 108 x 48 12 x 9 mm pitch | 95 x 36 x 70 4 x 9 mm pitch | |
| Screwed to plain or slotted backplate or onto DIN rail | Screwed to plain or slotted backplate or onto DIN rail | Onto DIN rail | |
| Possible to combine 2 terminal blocks (2 nd terminal block supplied from enclosed terminals in the 1 st , I _{max} of 2 nd terminal block: 80 A) | | | |
| IEC 61439-2 | IEC 61439-2 | IEC 61439-2 | |
| 960 °C | 960 °C | 960 °C | |
| 3 | 3 | 3 | |
| LVS04045 | LVS04046 (1) | LVS04031 | |
| 4 x 125 A flexible connections, L = 240 mm with 1 end fitting for tunnel terminals. | | 4 x 160 A flexible connections, L = 380 mm with 2 x 45 mm ² end fittings for tunnel terminals. | |
| LVS04047 (1) | | LVS04149 | |

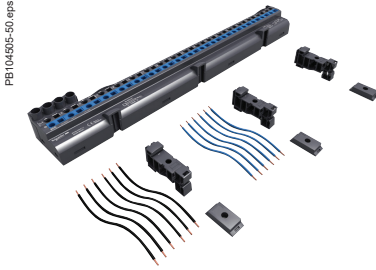


Note: electrical characteristics > page G-39.
(1) To be adapted with reference **28947** and **28948** fir INS-INV160.

Linergy FM

Quick device feeders



Device feeders



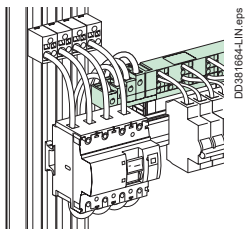
Description

- Distribution over full rows of modular devices.
- The distribution block is generally supplied by busbars in enclosures and cubicles.
- Easy phase balancing.
- Mix of devices and functions in the same row.
- Installation ≥ 160 A: clipped onto the back of a modular rail or screwed onto a solid or pre-slotted plate.

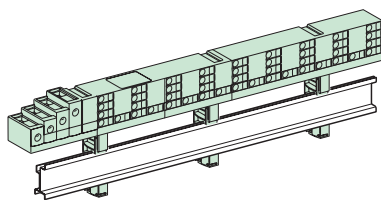
Distribution blocks

| Number of poles | | 4P | 4P |
|---|---------------------------------|--|---|
| | |  |  |
| | | PB02496-31_L_eps | PE104501-52r_eps |
| | | 63 A | 80 A |
| Rated peak withstand current (I _{pk}) | | 12 kA | 13 kA |
| Rated conditional short-circuit current of an assembly (I _{sc}) | | The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves, and their whole performance is maintained. 150 kA with upstream protection of 150 kA I _{cc} | |
| Rated insulation voltage (U _i) | | 500 V AC | 500 V AC |
| Rated voltage (U _e) | | 440 V AC | 440 V AC |
| Rated impulse withstand voltage (U _{imp}) | | 6 kV | 8 kV |
| Maximum current (I _{max}) | | - | - |
| Thermal stress (I ² .t) | | 9.03 x 10 ⁶ | 9.03 x 10 ⁶ |
| Rated operational frequency | | 50/60 Hz | 50/60 Hz |
| Degree of protection | | IPxxB | IPxxB |
| Width | 9 mm modules | 24 | 48 |
| | 18 mm modules | 12 | 24 |
| Supply at incoming terminals | | Enclosed terminals for cables up to 25 mm ² | |
| Downstream connection capacity, cable to be used without ferrules | Max. 4 mm ² | Phase | 6 |
| | | Neutral | 4 |
| | Max. 6 mm ² | Phase | 2 |
| | | Neutral | 4 |
| Max. 10 mm ² | Phase | - | - |
| | Neutral | - | - |
| Accessories included | Pre-stripped copper connections | 10 x 4 mm ² + 6 x 6 mm ² (W = 100 mm) | |
| | Protection cover | - | |
| | Fixing legs | 2 | |
| Catalogue numbers | | LVS04008 | LVS04004 |

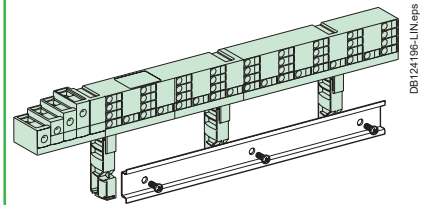
Installation



Clipped onto the back of a modular rail, or screw fixing.



Clipped onto the back of a modular rail.

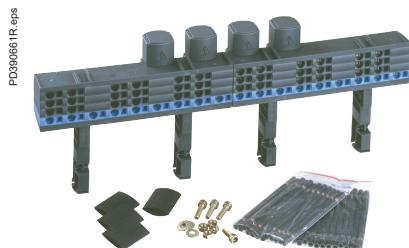






Clipped onto the back of a modular rail, or screw fixing.

Linergy FM

Quick device feeders

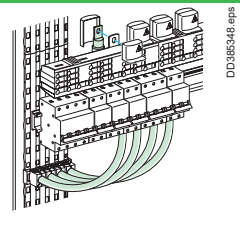
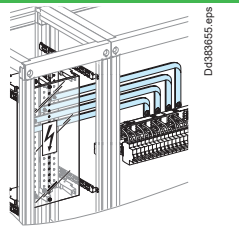
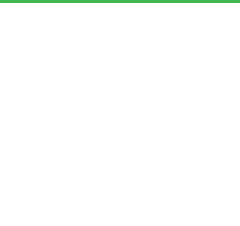
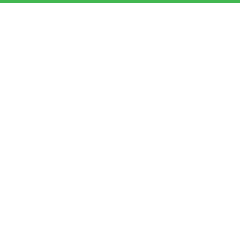
Device feeders



| 4P | 1P+N | 3P | 4P | 4P |
|--|---|---|--|---|
|  |  |  |  |  |
| PB502498-18_r_eps | PB502498-23_r_eps | PB502498-27_r_eps | PE502497-27_r_eps | PB502497-27_r_eps |
| 160 A | 200 A | 200 A | 200 A | 200 A |
| 20 kA | 20 kA | 20 kA | 20 kA | 20 kA |
| The cascading reinforced breaking capacity when combining circuit breakers is maintained. The worst-case scenarios have been tested. The characteristics are exactly right for the connected devices. Circuit breakers and switches still have their temperature derating curves, and their whole performance is maintained. 150 kA with upstream protection of 150 kA Icc | | | | |
| 750 V AC | 750 V AC | 750 V AC | 750 V AC | 750 V AC |
| 690 V AC | 690 V AC | 690 V AC | 690 V AC | 690 V AC |
| 8 kV | 8 kV | 8 kV | 8 kV | 8 kV |
| 50 A for feeder for 10 mm ² cable/63 A for feeder for 2 10 mm ² cables | | | | |
| 3600 x 10 ⁷ | 3600 x 10 ⁷ | 3600 x 10 ⁷ | | 3600 x 10 ⁷ |
| 50/60 Hz | | | | |
| IPxxB | | | | |
| 24 | 48 | | | 72 |
| 12 | 24 | | | 36 |
| Direct onto the row by cable 50 mm ² with crimped lug, or flexible bar 20 x 3 from busbar with prefabricated connection | | | | |
| - | - | | | - |
| - | - | | | - |
| - | - | | | - |
| - | - | | | - |
| 6 | 12 | | | - |
| 6 | 18 | | | - |
| 12 x 10 mm ² | 24 x 10 mm ² | 24 x 10 mm ² | 24 x 10 mm ² | 36 x 10 mm ² |
| 4 | 2 | 3 | 4 | 4 |
| 2 | 4 | 4 | 4 | 6 |
| LVS04018 (1) | LVS04012 (1)(2) | LVS04013 (1) | LVS04014 (1)(2) | LVS04026 (1) |



Connections to the distribution block

| | | | |
|---|---|--|---|
|  |  |  |  |
| DD38C348_eps | DD38C348_eps | DD38C348_eps | DD38C348_eps |
| 4P 200 A connection (supplied with fixings) | 4P 200 A connection (supplied with fixings) | 4P 200 A connection (supplied with fixings) | 4P 160 A connection for Linergy FM 1/2 row Devices |
| Allows power supply from Linergy BW busbars | Allows power supply from Linergy BS busbar | Allows power supply from Rear Linergy BS busbar | Allows power supply from Linergy BS busbar |
| Catalogue numbers | LVS04021 | LVS04024 | LVS04029 |
| | | | LVS04030 |

Spare parts

| | |
|---|--|
|  | PB502492-8_r_eps |
| | 4 covers for 160/200 A Linergy FM rows |
| Catalogue numbers | LVS01202 |

Note: electrical characteristics > page G-39.

(1) Cable to be used without tip.

(2) Use Linergy FM 200 (LVS04012 and LVS04014) in Direct Current is possible. It is mandatory to locate on the device the nature of the terminals ⊕ and ⊖ at upstream and downstream. For more information, please contact our customer service.

Linergy DS

Screw distribution blocks

Distribution blocks



IEC/EN 60947-7-1, IEC/EN 61439-1 & 2





Description

- Single-pole or four-pole distribution block that can be installed on a standard DIN rail or on a mounting plate.
- Compatible with PrismaSeT G and PrismaSeT P, Pragma, Mini Pragma and Resbo series switchboards.
- Incomers and feeders are connected to screw terminals that accept rigid or flexible cables with ferrule.
- Optional: additional neutral terminal strip for four-pole distribution block.

Avantages

- Simplified power supply for main incomers.
- Easy phase balancing.
- Easy, effortless cabling due to excellent accessibility.
- Visible cabling.
- Insulation between phases.
- The single-pole distribution blocks are adjacent and bridgeable via the second incoming hole for parallel connection.

Screw distribution blocks

| Number of poles | 1P | | | 4P |
|---|--|--|---|--|
| |  |  |  |  |
| Rating | 125 A | 160 A | 250 A | 100 A |
| Total connection capacity | 10 | 13 | 14 | 4 x 7 |
| Terminal capacity | | | | |
| Diameter | 2 x Ø9.5 mm | 2 x Ø12 mm | 1 x Ø15.3 mm | 2 x Ø7.5 mm |
| | 2 x Ø7.5 mm | 3 x Ø7.5 mm | 1 x Ø10 mm | 5 x Ø5.5 mm |
| | 6 x Ø5.8 mm | 8 x Ø5.8 mm | 4 x Ø6 mm | - |
| | - | - | 8 x Ø7.5 mm | - |
| Rated peak withstand current (Ipk) | Ipk/60 ms | 25 kA | 36 kA | 60 kA |
| | Ipk/6 ms | - | - | - |
| Rated short-time withstand current (Icc) (IEC/EN 60947-7-1) | 36 kA | 36 kA | 36 kA | 20 kA |
| Width (number of 9 mm pitches) | 3 | 4 | 5 | 8 |
| Dimensions (H x W x D) | 85 x 27 x 50.5 | 85 x 36 x 50.5 | 85 x 45 x 50.5 | 100 x 71 x 50.5 |
| Weight (g) | 125 | 163 | 239 | 210 |
| Neutral terminal strip (optional) | - | - | - | LGYN1007 |
| Catalog numbers | LGY112510 | LGY116013 | LGY125014 | LGY410028 |

Linergy DS

Screw distribution blocks

Distribution blocks

Technical data

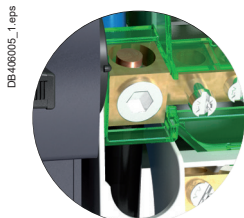
Common characteristics

In compliance with IEC/EN 60947-7-1 and IEC/EN 61439-1 & 2

| | |
|--|--|
| Rated insulation voltage (Ui) | 500 V AC |
| Rated operational voltage (Ue) | 230 V AC (L/N) 440 V AC (L/L) |
| Rated impulse withstand voltage (Uimp) | 8 kV |
| Rated conditional short-circuit current of an assembly | Up to the breaking capacity of Schneider Electric feeder circuit breakers, even in cascading configuration |
| Network frequency | 50/60 Hz |
| Degree of pollution | 3 |
| Overvoltage category | III |

Additional technical characteristics

| | |
|---------------------------------------|-----------------|
| Reference temperature | 40 °C |
| Operating temperature | -25 °C to 55 °C |
| Dielectric withstand (IEC/EN 60947-1) | 2500 V AC |



On LGY412560 and LGY416048 references.
Input cabling facilitated by side terminals.

| | | | Neutral terminal strip | | |
|------------------|------------------|------------------|------------------------|---------------|---------------|
| | | | | | |
| 125 A | 160 A | 100 A | 125 A | | |
| 4 x 12 | 4 x 15 | 4 x 12 | 7 | 12 | 15 |
| 1 x Ø9 mm | 1 x Ø9.5 mm | 1 x Ø12 mm | 2 x Ø7.5 mm | 1 x Ø9 mm | 1 x Ø9.5 mm |
| 7 x Ø7.5 mm | 3 x Ø8.5 mm | 3 x Ø9 mm | 5 x Ø5.5 mm | 7 x Ø7.5 mm | 3 x Ø8.5 mm |
| 4 x Ø6.5 mm | 11 x Ø6.5 mm | 8 x Ø7.5 mm | - | 4 x Ø6.5 mm | 11 x Ø6.5 mm |
| - | - | - | - | - | - |
| 18 kA | 18 kA | 22 kA | - | - | - |
| 26 kA | 28 kA | 36 kA | - | - | - |
| 36 kA | 36 kA | 36 kA | - | - | - |
| 14 | 20 | 18 | 7 | 14 | 17 |
| 100 x 126 x 50.5 | 100 x 162 x 50.5 | 100 x 174 x 50.5 | 20 x 70 x 35 | 20 x 125 x 35 | 20 x 155 x 35 |
| 390 | 559 | 567 | 63 | 111 | 149 |
| LGYN12512 | LGYN12515 | LGYN12512 | - | - | - |
| LGY412548 | LGY412560 | LGY416048 | LGYN1007 | LGYN12512 | LGYN12515 |

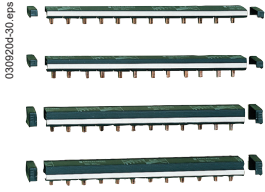
Terminal technical data

| Type | PZ2 screw | | | | | | | |
|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------------|--------------------------|--------------------------|
| Diameter | Ø5.5 mm | Ø5.8 mm | Ø6 mm | Ø6.5 mm | Ø7.5 mm | Ø8.5 mm | Ø9 mm | Ø9.5 mm |
| Section rigid cable | 1.5 to 16 mm ² | 1.5 to 16 mm ² | 1.5 to 16 mm ² | 1.5 to 16 mm ² | 2.5 to 25 mm ² | 6 to 35 mm ² | 10 to 35 mm ² | 10 to 35 mm ² |
| Section flexible cable or with ferrule | 1.5 to 10 mm ² | 1.5 to 10 mm ² | 1.5 to 10 mm ² | 1.5 to 10 mm ² | 1.5 to 16 mm ² | 4 to 25 mm ² | 4 to 25 mm ² | 6 to 35 mm ² |
| Tightening torque | 2 N.m | 2 N.m | 2 N.m | 2 N.m | 2 N.m | 2 N.m | 2.5 N.m | 2.5 N.m |
| Type | HC screw | | | | | | | |
| Diameter | Ø9.5 mm | Ø10 mm | Ø12 mm | Ø15.3 mm | | | | |
| Section rigid cable | 10 to 35 mm ² | 1.5 to 50 mm ² | 25 to 70 mm ² | 35 to 120 mm ² | | | | |
| | | | | Ø ≤ 15 mm | | | | |
| Section flexible cable or with ferrule | 6 to 35 mm ² | 1.5 to 35 mm ² | 16 to 50 mm ² | 25 to 95 mm ² | | | | |
| Tightening torque | 8 N.m | 4 N.m | 1P: 9 N.m 4P: 5 N.m | 14 N.m | | | | |

Linergy FH

Comb busbar for 27 mm pitch for C120, NG125

Device feeders



IEC 60664-1

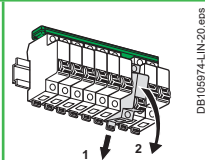
Description

Comb busbars make it easier to install C120 and NG125 circuit breaker.

- Supplied with 2 lateral end-caps, to reinforce copper bars insulating (IP2).
- Allowing circuit identification.
- Easy cut to length thanks to cutting marks on the insulating material and copper bars.

| C120, NG125 | | 27 mm poles, cuttable | | | |
|--|---|-----------------------|--------------|--------------|--|
| Number of poles | 1P | 2P | 3P | 4P | |
| | | | | | |
| | Each com busbar reference includes: ■ 1 x single or 2 pole comb busbar + 8 tooth-caps + 2 side plates ■ 1 x 3 or 4 pole comb busbar + 4 tooth-caps + 2 side plates To insulate teeth that have been left free can be insulated by tooth-caps | | | | |
| Rated operational current to 40 °C (Ie) | 125 A (63 A max by outgoer) | | | | |
| Rated conditional short-circuit current of an assembly (Isc) | Compatible with the breaking capacity of C120 and NG125 circuit breakers | | | | |
| Rated insulation voltage (Ui) | 620 V AC | | | | |
| Rated voltage (Ue) | 500 V AC | | | | |
| Degree of pollution | 3 | | | | |
| Fire resistance to IEC 695-2-1 | Self-extinguishing 960 °C, 30 s | | | | |
| Colour | RAL 7016 (anthracite grey) | | | | |
| Use | | | | | |
| | Power supply by connector recommended | | | | |
| Number of 27 mm modules | 16 | 16 | 15 | 16 | |
| Set of | 1 | | | | |
| Catalog numbers | 14811 | 14812 | 14813 | 14814 | |

Installation

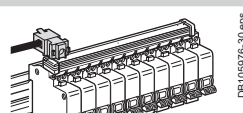
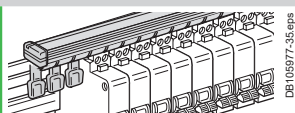


Comb busbars allow dismantability of switchgear.

Accessories

| Number of poles | 1P, 2P, 3P, 4P | |
|------------------------|-------------------|--|
| | | |
| | Tooth caps | Insulated connector |
| | | Compatible with all Schneider Electric comb busbars Clip onto the comb busbar's insulating material, which gives them very great stability Receive clip-on markers allowing circuit identification |
| Use | | |
| | | For 25 mm ² semi-rigid cable |
| Set of | 20 | 4 |
| Catalog numbers | 14818 | 14885 |

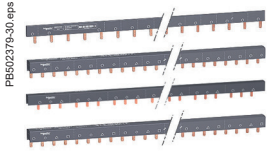
Installation



Linergy FH

Comb busbar for 18 mm pitch for Acti 9

Device feeders



IEC 60947-7-1, IEC 61439-2

Description

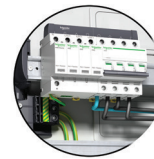
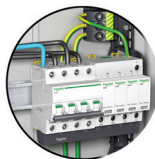
Comb busbars make it easier to install Acti 9 circuit breakers.

- Can be sawn and cut in a single pass, with a metal saw (the end-caps are compulsory after cutting).
- Supplied with two lateral end-caps to reinforce copper bars insulating (IP2) except for 57 module references. The side plates are compulsory after cutting.
- Easy cut to length thanks to cutting marks on the insulating material and copper bars.
- The phases are identified by symbols on each side of the comb busbar for installation in all positions.
- The special comb busbars for circuit breakers with 9 mm auxiliaries have a 9 mm gap for inserting iOF and iSD.

| Acti 9 | 18 mm poles, cuttable | | | | | | | | | | |
|--|--|----------|-----------|------------|---------------------|----------|------------|-----------|----------------------|-------------------------------------|-------------------------------------|
| Number of poles | 1P | 2P | 3P | 4P | 3 (N+P) | Aux+1P | Aux+2P | Aux+3P | Aux+4P | 3 (Aux+1P) | 3 (Aux+N+1P) |
| | | | | | | | | | | | |
| Rated operational current at 40 °C (Ie) | 100 A | | | | | | | | | | |
| Rated conditional short-circuit current of an assembly (Isc) | Compatible with the breaking capacity of Acti 9 circuit breakers | | | | | | | | | | |
| Rated insulation voltage (Ui) | 500 V AC | | | | | | | | | | |
| Rated voltage (Ue) | 415 V AC | | | | | | | | | | |
| Degree of pollution | 3 | | | | | | | | | | |
| Fire resistance to IEC 695-2-1 | Self-extinguishing 960 °C, 30 s | | | | | | | | | | |
| Colour | RAL 7016 (anthracite grey) | | | | | | | | | | |
| Use | | | | | | | | | | | |
| | Power supply by connector recommended | | | | | | | | | | |
| Type | L1... | L1L2... | L1L2L3... | NL1L2L3... | NL1NL2... ...NL3 | AuxL1... | AuxL1L2... | AuxL1L2L3 | AuxNL1... ...L2L3 | AuxL1... ...AuxL2... ...AuxL3 | AuxL1... ...AuxL2... ...AuxL3 |
| Set of | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Catalog numbers | | | | | | | | | | | |
| 6 modules of 18 mm | A9XPH106 | - | - | - | - | - | - | - | - | - | - |
| 12 modules of 18 mm | A9XPH112 | A9XPH212 | A9XPH312 | A9XPH412 | A9XPH512 (1) | - | - | - | - | - | - |
| 18 modules of 18 mm | - | - | - | - | A9XPH518 (1) | - | - | - | - | - | - |
| 24 modules of 18 mm | A9XPH124 | A9XPH224 | A9XPH324 | A9XPH424 | A9XPH524 (1) | - | - | - | - | - | - |
| 57 modules of 18 mm | A9XPH157 | A9XPH257 | A9XPH357 | A9XPH457 | A9XPH557 (1) | A9XAH157 | A9XAH257 | A9XAH357 | A9XAH457 | A9XAH657 | A9XAH557 (1) |

(1) This comb busbar is only compatible in top feeding for simple lug devices and bottom feeding on double lug devices.

Installation



Accessories

| Number of poles | 1P | 2P | 3P | 4P | - | - | - | |
|------------------------|--|----------|----------|----------|--|----------|--|--|
| | | | | | | | | |
| | Side plates | | | | Tooth covers | | Connectors | |
| | Lateral end-caps providing IP20 protection | | | | To insulate teeth that have been left free | | Monoconnect Comb busbar power supply. Horizontal incomer on each side. For 35 mm ² cable. Tightening torque 4 N.m | |
| Set of | 10 | 10 | 10 | 10 | 20 | 4 | 4 | |
| Catalog numbers | A9XPE110 | A9XPE210 | A9XPE310 | A9XPE410 | A9XPT920 | A9XPCM04 | A9XPCD04 | |

Linergy FH

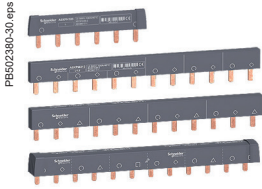
Comb busbar for 18 mm pitch for Acti 9

Device feeders

IEC 60947-7-1, IEC 61439-2

Description

- Comb busbars make it easier to install Acti 9 circuit breakers.
- The phases are identified by symbols on each side of the comb busbar for installation in all positions.



| Acti 9 | | 18 mm poles, not cuttable | | | | |
|--|--|---------------------------|--------|----------|--------------|--|
| Number of poles | 1P | 2P | 3P | 4P | 3 (N + P) | |
| | | | | | | |
| Rated operational current to 40 °C (Ie) | 100 A | | | | | |
| Rated conditional short-circuit current of an assembly (Isc) | Compatible with the breaking capacity of Acti 9 circuit breakers | | | | | |
| Rated insulation voltage (Ui) | 500 V AC | | | | | |
| Rated voltage (Ue) | 415 V AC | | | | | |
| Degree of pollution | 3 | | | | | |
| Fire resistance to IEC 695-2-1 | Self-extinguishing 960 °C, 30 s | | | | | |
| Colour | RAL 7016 (anthracite grey) | | | | | |
| Use | | | | | | |
| Type | Power supply by connector recommended | | | | | |
| Set of | L1 | L1L2 | L1L2L3 | NL1L2L3 | NL1NL2NL3 | |
| Catalog numbers | - | A9XPM212 | - | A9XPM412 | A9XPM512 (1) | |
| 12 modules of 18 mm | | | | | | |

Installation



Accessories

| | | | |
|---------------------|--|---|-------------------------|
| | | | |
| | Tooth caps | Connectors | |
| | To insulate teeth that have been left free | Monoconnect | Double terminals |
| | | Comb busbar power supply | |
| Use | | | |
| | | Horizontal in-comer on each side For 35 mm ² cable Tightening torque 4 N.m | |
| Set of | 20 | 4 | 4 |
| Catalog numbers | A9XPT920 | A9XPCM04 | A9XPCD04 |
| Installation | | | |



(1) This comb busbar is only compatible in top feeding for simple lug devices and bottom feeding on double lug devices.

Linergy FH

Comb busbar for 9 mm pitch for Acti 9, C60

Device feeders

IEC 60439-1

Description

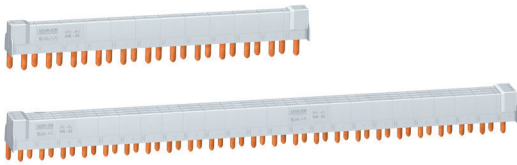
Comb busbars ensure:



- Easy, reliable mounting of 1P+N and 3P+N, TL, CT, ID, V, BP and Cm switchgear: tooth positioning opposite the device terminals is ensured by indexing of copper parts.

C60/ID Group Feeder comb busbars contain two different parts:

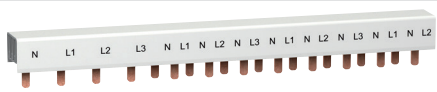
- connection of Group Feeder switchgear: C60 (3P + N) or ID (3P + N) circuit breaker in 18 mm modules, powered by cables, through the bottom, directly by the terminals
- connection of Acti 9 switchgear in 9 mm modules.

PB602302-70.eps

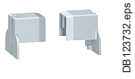





| Acti 9 L + N | | 9 mm poles, cuttable | | | | | |
|--|-------------|---|-------|-------|---|-------|-------|
| Number of poles | | 1P + N | | | 3P + N | | |
| | |  | | |  | | |
| | | 21501 | | | 21505 | | |
| | | Complete comb busbars (supplied with 4 side plates and 1 tooth cap) | | | | | |
| Rated operational current to 40 °C (Ie) | | 80 A | | | | | |
| Rated conditional short-circuit current of an assembly (Isc) | | Compatible with the breaking capacity of Acti 9 C60 and circuit breakers | | | | | |
| Rated insulation voltage (Ui) | | 440 V AC | | | | | |
| Rated voltage (Ue) | | 230 V AC (P + N) - 400 V AC (3P + N) | | | | | |
| Rated impulse withstand voltage (Uimp) | | 6 kV | | | | | |
| Degree of protection | | IP20 | | | | | |
| Degree of pollution | | 3 | | | | | |
| Fire resistance to IEC 695-2-1 | | Self-extinguishing 960 °C, 30 s | | | | | |
| Colour | | RAL 7035 | | | | | |
| Number of 18 mm modules | Comb busbar | 12 | 18 | 24 | 12 | 18 | 24 |
| | Tooth cap | 3 | 3 | 6 | 3 | 3 | 6 |
| Catalog numbers | | 21501 | 19512 | 21503 | 21505 | 19516 | 21507 |
| Comb busbars alone | | | | | | | |
| Number of 18 mm modules | Comb busbar | 48 | | | 48 | | |
| | | 21089 | | | 21093 | | |

C60/ID Group Feeder comb busbars alone

| Number of poles | | 3P + N | | |
|--|--------------|--|-------------------|--------------------|
| | |  | | |
| Rated operational current to 40 °C (Ie) | | 80 A | | |
| Rated conditional short-circuit current of an assembly (Isc) | | Compatible with the breaking capacity of Schneider Electric circuit breakers | | |
| Rated insulation voltage (Ui) | | 440 V AC | | |
| Rated voltage (Ue) | | 230 V AC (P + N) - 400 V AC (3P + N) | | |
| Rated impulse withstand voltage (Uimp) | | 6 kV | | |
| Degree of protection | | IP20 | | |
| Degree of pollution | | 3 | | |
| Fire resistance to IEC 695-2-1 | | Self-extinguishing 960 °C, 30 s | | |
| Colour | | RAL 7035 | | |
| Number of 18 mm modules | | 12 | 48 | 48 |
| | Power supply | Through left-hand | Through left-hand | Through right-hand |
| Catalog numbers | | 10545 | 10546 | 10547 |

Accessories

| Number of poles | 1P + N | 3P + N | | |
|-----------------|---|---|---|---|
| |  |  |  |  |
| | Side plates | Tooth caps (3 x 18-mm modules) | Tooth caps (1 x 18-mm modules) | Connectors (grey) |
| Set of | 40 | 12 | 10 | 4 |
| Catalog numbers | 21094 | 21095 | 21096 | 10405 |
| | | | | 21098 |

Linergy FH

Comb busbar for 9 mm pitch for Acti 9

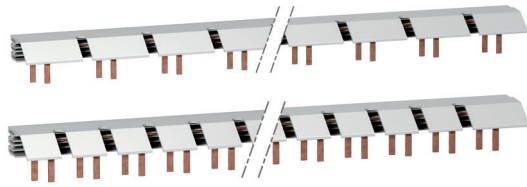
Device feeders

IEC 60439-1

Description

- Connection of Clario, Prodis and Librio switchgear in 9 mm modules.
- The special comb busbars for circuit breaker have a gap of 9 mm for inserting OF, SD, OF-SD/OF auxiliaries.
- The comb busbars for 3P + N circuit breakers and auxiliaries are compatible with PrismaSeT switchboard.
- 1P+N comb busbars are compatible with PrismaSeT and Pragma 24.

PB502389-10.eps



PB110801-10.eps

| Acti 9 | | 9 mm poles, cuttable | | | |
|--|--|----------------------|-----------------------|----------|--|
| Number of poles | 1P + N | 3P + N | 1P + N | 3P + N | |
| | | | | | |
| | A9N21036 | | DPN Vigi comb busbars | | |
| Rated operational current to 40 °C (Ie) | 63 A | | | | |
| Rated conditional short-circuit current of an assembly (Isc) | Compatible with the breaking capacity of Acti 9 circuit breakers | | | | |
| Rated insulation voltage (Ui) | 500 V AC | | | | |
| Rated voltage (Ue) | 230 V AC (P + N) - 400 V AC (3P + N) | | | | |
| Degree of protection | IP20 | | | | |
| Degree of pollution | 3 | | | | |
| Fire resistance to IEC 695-2-1 | Self-extinguishing 960 °C, 30 s | | | | |
| Colour | RAL 7035 | | | | |
| Number of 18 mm modules | 56 | 56 | 56 | 56 | |
| Catalog numbers | A9N21035 | A9N21036 | A9N21037 | A9N21038 | |

Accessories

| Number of poles | 1P + N | 3P + N | | | |
|-----------------|-------------|-------------------|---------------------------|------------------------------|----------|
| | | | | | |
| | Side plates | Connectors (grey) | Neutral connectors (blue) | Tooth cap (1 x 18 mm module) | |
| Set of | 20 | 10 | 10 | 10 | |
| Catalog numbers | A9N21039 | A9N21040 | A9N21041 | A9N21042 | A9N21050 |

Linergy FH

Horizontal comb busbar for 18 mm pitch for Domae

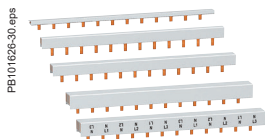
Device feeders

IEC 60439-1, IEC 60664

Description

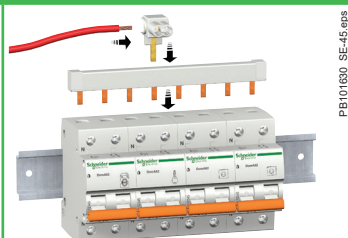
Comb busbars:

- Comb busbars ensure: Easy, reliable mounting of 1P+N and 3P+N, TL, CT, ID, V, BP and Cm switchgear: tooth positioning opposite the device terminals is ensured by indexing of copper parts
- Can be sawn and cut in a single pass, with a metal saw (the end-caps are compulsory after cutting).
- Are supplied with 2 (IP20) lateral end-caps (mandatory).
- Teeth that have been left free can be insulated by tooth-caps.



| Domae | | 18 mm poles, cuttable | | | | | | | | |
|--|-----|---|-------|-------|-------|------------|-------|-------|-------|-------|
| Number of poles | | 1P | 2P | 3P | 4P | 3P (N + P) | | | | |
| | | | | | | | | | | |
| Rated operational current to 40 °C (Ie) | | 63 A | | | | | | | | |
| Rated conditional short-circuit current of an assembly (Isc) | | Compatible with the breaking capacity of circuit breakers | | | | | | | | |
| Rated insulation voltage (Ui) | | 500 V AC | | | | | | | | |
| Rated voltage (Ue) | L/N | 230 V AC | | | | | | | | |
| | L/L | 400 V AC | | | | | | | | |
| Degree of pollution | | 3 | | | | | | | | |
| Fire resistance to IEC 695-2-1 | | Auto-extinguible to 850 °C 30 secondes | | | | | | | | |
| Colour | | RAL 7035 | | | | | | | | |
| Power supply | | By 16 mm ² semi-rigid cables or 10 mm ² flexible cables | | | | | | | | |
| | | By connector | | | | | | | | |
| Number of 18 mm modules | | 12 | 57 | 12 | 57 | 12 | 57 | 12 | 57 | 57 |
| Catalog numbers | | 10387 | 10388 | 10389 | 10390 | 10391 | 10392 | 10393 | 10394 | 10395 |

Installation



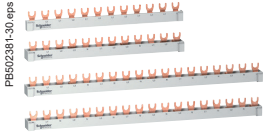
Accessories

| Type | Connectors (4 x 35 mm ²) | Side plates (2 phases) | Side plates (3 phases) | Side plates (4 phases) | Tooth caps |
|-----------------|--------------------------------------|------------------------|------------------------|------------------------|------------|
| Set of | 1 | 10 | 10 | 10 | 10 |
| Catalog numbers | 10397 | 10398 | 10399 | 10405 | 10396 |

Linergy FH

Horizontal biconnect comb busbar for 18 mm pitch

Device feeders



IEC 60664-1

Description

- Distribution and sub-distribution of the electric power supply.
- Fast assembly and disassembly of connected devices.

| Comb horizontal bi-connection | | 18 mm poles, cuttable | | | | | | | | | | | |
|--|---|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| Number of poles | | 1P | | | 2P | | | 3P | | | 4P | | |
| Rated operational current to 40 °C (Ie) | 63 A | | | | | | | | | | | | |
| Rated conditional short-circuit current of an assembly (Isc) | Compatible with the breaking capacity of circuit breakers | | | | | | | | | | | | |
| Rated insulation voltage (Ui) | 500 V AC | | | | | | | | | | | | |
| Rated voltage (Ue) L/N | 230 V AC | | | | | | | | | | | | |
| | L/L | 400 V AC | | | | | | | | | | | |
| Degree of pollution | 3 | | | | | | | | | | | | |
| Fire resistance to IEC 695-2-1 | Self-extinguishing 960 °C, 30 s | | | | | | | | | | | | |
| Colour | RAL 7035 (grey) | | | | | | | | | | | | |
| Use | | Power supply: directly on terminal (25 mm ² rigid or 16 mm ² flexible) or by connector (35 mm ² rigid or 25 mm ² flexible with ferrule) | | | | | | | | | | | |
| Type | L1 | L1L2 | | | L1L2L3 | | | L1L2L3L4 | | | | | |
| Number of 18 mm modules | 12 | 18 | 57 | 12 | 18 | 57 | 12 | 18 | 57 | 12 | 18 | 57 | |
| Set of | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Catalog numbers | R9XFH112 | R9XFH118 | R9XFH157 | R9XFH212 | R9XFH218 | R9XFH257 | R9XFH312 | R9XFH318 | R9XFH357 | R9XFH412 | R9XFH418 | R9XFH457 | |

Installation

| Comb busbars horizontal bi-connection | | 18 mm poles, cuttable | | |
|--|--|-----------------------|--|----------|
| Number of poles | | 4P | | |
| Rated operational current to 40 °C (Ie) | 63 A | | | |
| Rated conditional short-circuit current of an assembly (Isc) | Compatible with the breaking capacity of Schneider Electric circuit breakers | | | |
| Rated insulation voltage (Ui) | 500 V AC | | | |
| Rated voltage (Ue) L/N | 230 V AC | | | |
| | L/L | 400 V AC | | |
| Degree of pollution | 3 | | | |
| Fire resistance to IEC 695-2-1 | Self-extinguishing 960 °C, 30 s | | | |
| Colour | RAL 7035 (grey) | | | |
| Use | | NL1L2L3L4 - NL1NL2NL3 | | |
| Type | | NL1NL2NL3 | | |
| Number of 18 mm modules | 18 | 18 | | 57 |
| Set of | 1 | 1 | | 1 |
| Catalog numbers | R9XFH518G | R9XFH518 | | R9XFH557 |

Installation

Accessories

| Number of poles | 1P | 2P | 3P | 4P | | | |
|-----------------|--------------------|---------|---------|---------|-------------------|---------|-------------------|
| | | | | | | | |
| | Side plates | | | | Tooth caps | | Connectors |
| Set of | 10 | | | | 20 | | 4 |
| Catalog numbers | R9XE110 | R9XE210 | R9XE310 | R9XE410 | R9XT20 | R9XFC04 | |

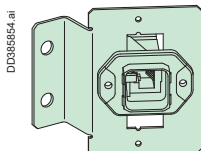
Linergy TA

Auxiliary connections

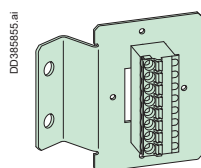
Terminal blocks and lines

Connectors

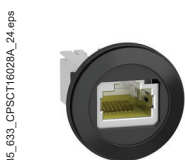
For plug & play interconnection between electrical switchboard for control and communication wires.



| RJ45 female-female connector with mounting plate | | |
|--|----------------------------------|--------------|
| Connector type | 8 wires RJ45; 1 Gbps | |
| For ethernet cable | CAT5e SFTP (IEC 11801) or higher | |
| Degree of protection | IP67 for direct mount | |
| Dimensions (H x W x D) | (mm) | 75 x 70 x 45 |
| Catalog number | LGY4230 | |



| 8P male-female connector with mounting plate | | |
|--|----------------------------|--------------|
| Rated operational current at 40 °C | (Ie) | 12 A |
| Rated operational voltage | (Ue) | 320 V |
| Rated impulse withstand voltage | (Uimp) | 4 kV |
| Connection method | Push-in spring connection | |
| Connection capacity | Input | 8 |
| | Output | 8 |
| Dimensions (H x W x D) | (mm) | 75 x 70 x 45 |
| Wire size | 0.2 to 2.5 mm ² | |
| Catalog number | LGY4231 | |

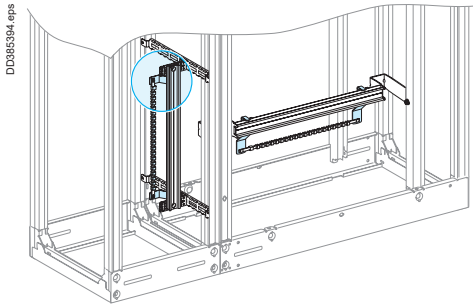


| USB and RJ45 ports | | | | | |
|------------------------|---|-------------------------------|--------------------------------------|---|---|
| Description | Panel-mounted USB and RJ45 ports in 22.5 mm hole with notch | | | | |
| Interface type | USB interface, jack type A | Ethernet interface, RJ45 jack | Plastic protection cover IP65/ IP67 | Rigid plastic protection cover IP65/ IP67 | Metal protection cover IP65/ IP67/IP69K |
| Connection type | USB port 3.0 A-A | RJ45 port Cat. 6 | Ø 22 mm/0.866 in. USB and RJ45 ports | | |
| Others characteristics | IP20 IP65, IP67, IP69K with protection cover | | Black quantity:10 | Transparent quantity:1 | Silver quantity:1 |
| Catalog number | XB5PUSB3 | XB5PRJ45 | ZBSP1 | ZBSP2 | ZBSP3 |



Linergy TB
Earth bars

Terminal blocks and lines

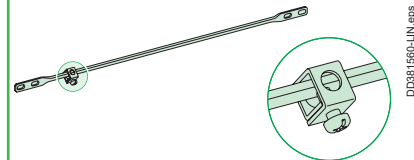


Description

This range of earth bars is installed:

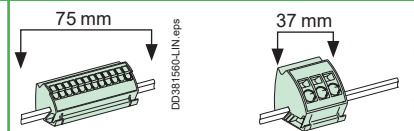
- in the duct which can constitute a dedicated area, completely separate from the equipment
- or in the switchgear compartment, at the top or the bottom .

Fast-connecting earth bar



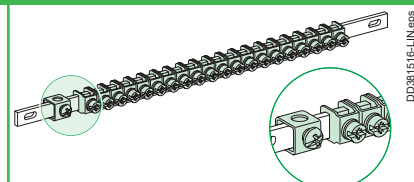
| | |
|--|---|
| | Copper earth bar |
| Cross-section (mm) | 12 x 3 |
| Effective length (mm) | 330 |
| Total length (mm) | 450 |
| Composition | Copper bar with 1 terminal 16 to 35 mm ² |
| Rated short time withstand current (Icw) | 9 kA rms/0.5 s |
| Catalog numbers | LVS04201 |

Accessories



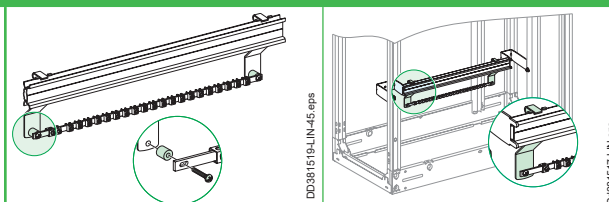
| | | |
|--|---|------------------------|
| | Earth blocks with terminals | |
| | Spring-fixing (clip onto the earth bar) | |
| Total connection capacity | 12 x 4 mm ² | 3 x 16 mm ² |
| Composition | 4 earth blocks | 4 earth blocks |
| Rated short time withstand current (Icw) | 1 kA rms/0.5 s | 4 kA rms/0.5 s |
| Catalog numbers | LVS04214 | LVS04215 |

Accessories



| | | |
|--|---|---|
| | Copper earth bar with jumper | |
| Total connection capacity | 40 x 2.5 to 16 mm ² | 20 x 2.5 to 16 mm ² |
| Cross-section (mm) | 12 x 3 | 12 x 3 |
| Length (mm) | 450 | 200 |
| Composition | 40 jumpers and a terminal (16 to 35 mm ²) | 20 jumpers and a terminal (16 to 35 mm ²) |
| Rated short time withstand current (Icw) | 9 kA rms/0.5 s | 9 kA rms/0.5 s |
| Catalog numbers | LVS04200 | LVS04202 |

Accessories



| | | |
|------------------------|--|--|
| | Neutral bar | Earth bar |
| | Converts an earth bar to a neutral bar | |
| Composition | 2 insulating spacers | 2 supports for earth bar on modular rail |
| Catalog numbers | LVS04210 | LVS04205 |

Linergy TB
PE conductor

Terminal blocks and lines

| PE conductor | | | | | | | |
|--------------------------------|---|--------------|----------|--|--|---|----------|
| | | | | | | | |
| | Vertical PE conductor with Linergy LGY profile (W = 1670 mm) | | | Vertical PE conductor with Linergy BS busbar (W = 1675 mm) | | Horizontal PE conductor with Linergy BS busbar | |
| Rated short-time current (Isc) | ≤ 65 | > 65... ≤ 80 | = 100 | ≤ 40 | > 40 | ≤ 40 | > 40 |
| Permissible current (A) | 630 | 800 | 1250 | 400 | 600 | 400 | 600 |
| Bar size (mm) | | | | 25 x 5 | 50 x 5 | 25 x 5 | 50 x 5 |
| Characteristics | | | | Drilled flat bar Ø10.6 mm (one 10.6 mm hole every 25 mm along the entire length) | Drilled flat bar Ø10.6 mm (two 10.6 mm hole every 25 mm along the entire length) | | |
| Catalog numbers | LVS04502 | LVS04503 | LVS04505 | LVS04512 | LVS04515 | LVS04512 | LVS04515 |

| Support selection | | |
|-------------------|--|------------------------------------|
| Composition | Three supports for one vertical PE (supplied with PE marking) to secure to the framework | Two supports for one horizontal PE |
| Catalog numbers | LVS04657 | LVS04667 |

| Connection between PE conductors | | |
|----------------------------------|--|--|
| | | |
| | Connection plates for horizontal/vertical PE bars | |
| Composition | 2 copper angle brackets | Linergy connection hardware 20 M8 bolts (W = 25 mm) + 20 nuts + 20 contact washers for connection to cable lugs or flexible bars |
| Catalog numbers | LVS04672 | LVS04766 |

| PEN conductor | | |
|-----------------|---|----------|
| | | |
| | Linergy TB PEN installation kit with LGY vertical profile | |
| Catalog numbers | LVS04656 (1) | LVS04636 |
| | 1600 A connection 10 mm horizontal busbar with Linergy LGY profile | |
| Catalog numbers | LVS04636 | LVS04602 |
| | Linergy LGYE vertical connection 1600 A | |
| Catalog numbers | LVS04656 (1) | LVS04602 |

Note: for further details > page I-11.

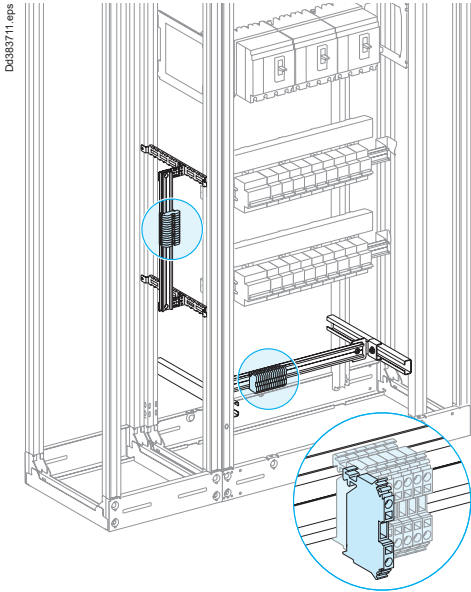
(1) For LGYE HBB, additional fish plate need to be manufactured as per the drawing supplied by Schneider Electric.

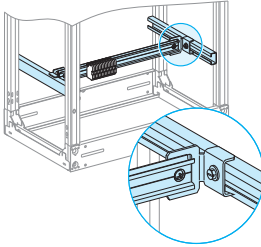
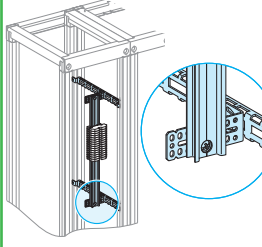
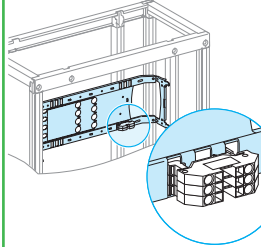
Linergy TB terminal block support

Secondary distribution

Introduction

In PrismaSeT P cubicles, terminal blocks are commonly installed in a lateral compartment, generally 300 or 400 mm wide. They may also be installed at the top or bottom of the cubicle.



| | Installation at top or bottom of a cubicle | Installation in a lateral compartment | Installation on a device mounting plate |
|---|---|---|--|
| |  |  |  |
| Modular rail, depth adjustable (W = 432 mm) | LVS03402 | - | - |
| 2 modular rails W = 1600 mm | LVS04226 | LVS04226 | - |
| 2 universal angle brackets | LVS03581 | LVS03581 | - |
| Set of two lateral cross-members W = 400 mm | LVS03584 | - | - |
| Characteristics | Terminal blocks are grouped on modular rails that can be depth adjusted behind a plain front plate. | The terminal block is generally installed in the cable compartment, W = 300 or 400 mm. The terminal blocks clip onto a modular rail. The rail is secured to cable-tie supports using universal angle brackets for precise positioning of the terminal blocks. | Terminal blocks can be directly installed on the mounting plates for horizontally mounted ComPacT NSX100/630 and vertically mounted ComPacT NS630b/1600 for connection of auxiliary wires. |

Width of standard terminal blocks

| | | | | |
|-----------------------------------|---|---|----|----|
| Max. cable CSA (mm ²) | 4 | 6 | 10 | 16 |
| Width of terminal block (mm) | 6 | 8 | 10 | 12 |

Height required in switchboard

| | | | | |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|
| Max. cable CSA (mm ²) | 4 | 6 | 10 | 16 |
| No. of vertical modules | 3 | 3 | 5 | 6 |
| Plain front plate | LVS03803 | LVS03803 | LVS03805 | LVS03806 |

Designing connection ≤ 630 A

Auxiliary connections

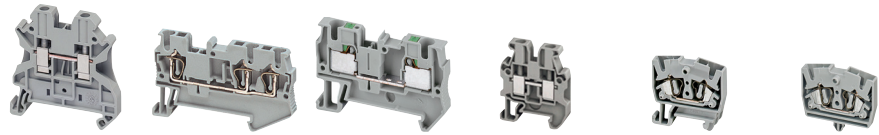
Electrical characteristics

| Device | Ambient temperature around the switchboard | | | | | | | | | | | |
|--|--|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|
| | 25°C | | 30°C | | 35°C | | 40°C | | 45°C | | 50°C | |
| | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| Rated current of a circuit I_{nc} (A) | | | | | | | | | | | | |
| Linerigy BW | | | | | | | | | | | | |
| Insulated bus bar Linergy BW 125A | 134 | 125 | 129 | 120 | 125 | 116 | 120 | 111 | 116 | 106 | 110 | ■ |
| Insulated bus bar Linergy BW 160A | 171 | 160 | 166 | 154 | 160 | 148 | 154 | 142 | 148 | 135 | 142 | ■ |
| Insulated bus bar Linergy BW 250 | 267 | 250 | 259 | 241 | 250 | 231 | 241 | 222 | 231 | 211 | 222 | ■ |
| Insulated bus bar Linergy BW 400A | 428 | 400 | 414 | 385 | 400 | 370 | 385 | 355 | 370 | 338 | 355 | ■ |
| Insulated bus bar Linergy BW 630A | 673 | 630 | 652 | 607 | 630 | 583 | 607 | 558 | 583 | 532 | 558 | ■ |
| Linerigy BS | | | | | | | | | | | | |
| Rear flat busbars 160 A | 171 | 160 | 166 | 154 | 160 | 148 | 154 | 142 | 148 | 135 | 142 | ■ |
| Rear flat busbars 250 A | 267 | 250 | 259 | 241 | 250 | 231 | 241 | 222 | 231 | 211 | 222 | ■ |
| Rear flat busbars 400 A | 428 | 400 | 414 | 385 | 400 | 370 | 385 | 355 | 370 | 338 | 355 | ■ |
| Rear flat busbars 630 A | 673 | 630 | 652 | 607 | 630 | 583 | 607 | 558 | 583 | 532 | 558 | ■ |
| Linerigy BS | | | | | | | | | | | | |
| Multi-stage busbars 160 A | 171 | 160 | 166 | 154 | 160 | 148 | 154 | 142 | 148 | 135 | 142 | ■ |
| Multi-stage busbars 250 A | 267 | 250 | 259 | 241 | 250 | 231 | 241 | 222 | 231 | 211 | 222 | ■ |
| Multi-stage busbars block 400A | 428 | 400 | 414 | 385 | 400 | 370 | 385 | 355 | 370 | 338 | 355 | ■ |
| Multi-stage busbars block 630 A | 673 | 630 | 652 | 607 | 630 | 583 | 607 | 558 | 583 | 532 | 558 | ■ |
| Linerigy BS | | | | | | | | | | | | |
| Multi-stage distribution block 160 A | 171 | 160 | 166 | 154 | 160 | 148 | 154 | 142 | 148 | 135 | 142 | ■ |
| Multi-stage distribution block 250 A | 267 | 250 | 259 | 241 | 250 | 231 | 241 | 222 | 231 | 211 | 222 | ■ |
| Multi-stage distribution block 400A | 428 | 400 | 414 | 385 | 400 | 370 | 385 | 355 | 370 | 338 | 355 | ■ |
| Multi-stage distribution block 630 A | 673 | 630 | 652 | 607 | 630 | 583 | 607 | 558 | 583 | 532 | 558 | ■ |
| Linerigy DX | | | | | | | | | | | | |
| Quick distribution block Linergy DX 4P 125A | 134 | 125 | 129 | 120 | 125 | 116 | 120 | 111 | 116 | 106 | 111 | ■ |
| Quick distribution block Linergy DX 4P 160A | 171 | 160 | 166 | 154 | 160 | 148 | 154 | 142 | 148 | 135 | 142 | ■ |
| Quick distribution block Linergy DX 1P 1P 160A | 171 | 160 | 166 | 154 | 160 | 148 | 154 | 142 | 148 | 155 | 142 | ■ |
| Linerigy DP | | | | | | | | | | | | |
| Quick distribution block Linergy DP 3P-4P 160A | 160 | 160 | 155 | 155 | 150 | 150 | 145 | 145 | 140 | 140 | 135 | ■ |
| Quick distribution block Linergy DP 3P-4P 250A | 267 | 250 | 259 | 241 | 250 | 231 | 241 | 222 | 231 | 211 | 222 | ■ |
| Linerigy FM | | | | | | | | | | | | |
| Quick device feeders Linergy FM 4P 63A | 67 | 63 | 65 | 61 | 63 | 58 | 61 | 56 | 58 | 53 | 56 | ■ |
| Quick device feeders Linergy FM 4P 80A | 86 | 80 | 83 | 77 | 80 | 74 | 77 | 71 | 74 | 68 | 71 | ■ |
| Quick device feeders Linergy FM 4P 160A | 171 | 160 | 166 | 154 | 160 | 148 | 154 | 142 | 148 | 135 | 142 | ■ |
| Quick device feeders Linergy FM 2P 200A | 214 | 200 | 207 | 193 | 200 | 185 | 193 | 177 | 185 | 169 | 177 | ■ |
| Quick device feeders Linergy FM 3P 200A | 214 | 200 | 207 | 193 | 200 | 185 | 193 | 177 | 185 | 169 | 177 | ■ |
| Quick device feeders Linergy FM 4P 200A | 214 | 200 | 207 | 193 | 200 | 185 | 193 | 177 | 185 | 169 | 177 | ■ |
| Quick device feeders Linergy FM 4P 200A (36 modules) | 214 | 200 | 207 | 193 | 200 | 185 | 193 | 177 | 185 | 169 | 177 | ■ |

■ Check the concordance between Linergy derating value and upstream protection device derating value.

Linerger TR
Terminal blocks

Secondary distribution



| | | | Connection technology | | | | | |
|--------------------------------|---------------------------------------|---------------|-----------------------|--------------|--------------|------------------------------------|-------------------------------------|-----------------------------------|
| Type of terminal block | Cross section area | Color | Screw tech | Spring tech | Push-in tech | Miniature screw for 15 mm DIN rail | Miniature spring for 15 mm DIN rail | Miniature spring for direct mount |
| Passthrough | 2.5 mm ² (2 pts) | Grey | NSYTRV22 | NSYTRR22 | NSYTRP22 | NSYTRV22M | NSYTRR22M | NSYTRR22MF |
| | | Blue | NSYTRV22BL | NSYTRR22BL | NSYTRP22BL | NSYTRV22MBL | NSYTRR22MBL | NSYTRR22MFBL |
| | | Orange | NSYTRV22AR | NSYTRR22AR | NSYTRP22AR | - | - | NSYTRR22MFF* |
| | 2.5 mm ² (3 pts) | Grey | NSYTRV23 | NSYTRR23 | NSYTRP23 | - | - | - |
| | | Blue | NSYTRV23BL | NSYTRR23BL | NSYTRP23BL | - | - | - |
| | | Orange | - | NSYTRR23AR | NSYTRP23AR | - | - | - |
| | 2.5 mm ² (4 pts) | Grey | NSYTRV24 | NSYTRR24 | NSYTRP24 | - | NSYTRR24M | NSYTRR24M |
| | | Blue | NSYTRV24BL | NSYTRR24BL | NSYTRP24BL | - | NSYTRR24MBL | NSYTRR24MBL |
| | 2.5 mm ² (4 pts, 2 levels) | Grey | NSYTRV24D | NSYTRR24D | NSYTRP24D | - | - | - |
| | | Blue | NSYTRV24DBL | NSYTRR24DBL | NSYTRP24DBL | - | - | - |
| | 2.5 mm ² (6 pts, 3 levels) | Grey | NSYTRV26T | NSYTRR26T | NSYTRP26T | - | - | - |
| | | Blue | NSYTRV26TBL | NSYTRR26TBL | NSYTRP26TBL | - | - | - |
| | 4 mm ² (2 pts) | Grey | NSYTRV42 | NSYTRR42 | NSYTRP42 | NSYTRV42M | - | - |
| | | Blue | NSYTRV42BL | NSYTRR42BL | NSYTRP42BL | NSYTRV42MBL | - | - |
| | | Orange | NSYTRV42AR | NSYTRR42AR | - | - | - | - |
| | 4 mm ² (3 pts) | Grey | NSYTRV43 | NSYTRR43 | NSYTRP43 | - | - | - |
| | | Blue | NSYTRV43BL | NSYTRR43BL | NSYTRP43BL | - | - | - |
| | 4 mm ² (4 pts) | Grey | NSYTRV44 | NSYTRR44 | NSYTRP44 | - | - | - |
| | | Blue | NSYTRV44BL | NSYTRR44BL | NSYTRP44BL | - | - | - |
| | 4 mm ² (4 pts, 2 levels) | Grey | NSYTRV44D | NSYTRR44D | - | - | - | - |
| Blue | | NSYTRV44DBL | NSYTRR44DBL | - | - | - | - | |
| 6 mm ² (2 pts) | Grey | NSYTRV62 | NSYTRR62 | - | - | - | - | |
| | Blue | NSYTRV62BL | NSYTRR62BL | - | - | - | - | |
| 10 mm ² (2 pts) | Grey | NSYTRV102 | NSYTRR102 | - | - | - | - | |
| | Blue | NSYTRV102BL | NSYTRR102BL | - | - | - | - | |
| 16 mm ² (2 pts) | Grey | NSYTRV162 | NSYTRR162 | - | - | - | - | |
| | Blue | NSYTRV162BL | NSYTRR162BL | - | - | - | - | |
| Earth protection | 2.5 mm ² (2 pts) | Green/Yellow | NSYTRV22PE | NSYTRR22PE | NSYTRP22PE | NSYTRV22MPE | NSYTRR22MPE | - |
| | 2.5 mm ² (3 pts) | Green/Yellow | NSYTRV23PE | NSYTRR23PE | NSYTRP23PE | - | - | - |
| | 2.5 mm ² (4 pts) | Green/Yellow | NSYTRV24PE | NSYTRR24PE | NSYTRP24PE | - | - | - |
| | 4 mm ² (2 pts) | Green/Yellow | NSYTRV42PE | NSYTRR42PE | NSYTRP42PE | NSYTRV42MPE | - | - |
| | 4 mm ² (3 pts) | Green/Yellow | NSYTRV43PE | NSYTRR43PE | NSYTRP43PE | - | - | - |
| | 4 mm ² (4 pts) | Green/Yellow | NSYTRV44PE | NSYTRR44PE | NSYTRP44PE | - | - | - |
| | 6 mm ² (2 pts) | Green/Yellow | NSYTRV62PE | NSYTRR62PE | - | - | - | - |
| | 10 mm ² (2 pts) | Green/Yellow | NSYTRV102PE | NSYTRR102PE | - | - | - | - |
| Knife Disconnect | 2.5 mm ² (2 pts) | Grey | NSYTRV22SC | NSYTRR22SC | NSYTRP22SC | - | - | - |
| | | Orange | NSYTRV22ST (1) | NSYTRR22SCAR | - | - | - | - |
| | 2.5 mm ² (3 pts) | Grey | - | NSYTRR23SC | NSYTRP23SC | - | - | - |
| | | Orange | - | NSYTRR23SCAR | - | - | - | - |
| 2.5 mm ² (2 levels) | Grey | NSYTRV24SCD | NSYTRR24SCD | - | - | - | - | |
| Fuse Disconnect | 4 mm ² (2 pts) | Black | NSYTRV42SF5 | - | - | - | - | - |
| | 5 x 20 mm fuse | Black (12 V) | NSYTRV42SF5LD (2) | - | - | - | - | - |
| | | Black (230 V) | NSYTRV42SF5LA (2) | - | - | - | - | - |
| Basic Disconnect (3) | 4 mm ² (2 pts) | Grey | NSYTRV42TB | NSYTRR42TB | NSYTRP42TB | - | - | - |
| Measuring transducer | 6 mm ² (2 pts) Disconnect | Grey | NSYTRV62TTD | - | - | - | - | - |
| | 6 mm ² (2 pts) | Grey | NSYTRV62TT | - | - | - | - | - |
| | 6 mm ² (2 pts) | Green/Yellow | NSYTRV62TTPE | - | - | - | - | - |

* Grey terminal with flange.

(1) Grey disconnect terminal with 2 test points.

(2) With light indicator.

(3) Fuse or component carrier not supplied.

Linergy TR

Terminal blocks

Secondary distribution



| Accessories | | | | | | |
|-----------------------------------|-------------------------|--------------------------|---------------------------|----------------|------------------------------|--|
| Miniature spring for direct mount | End plate for screw TBs | End plate for spring TBs | End plate for push-in TBs | Plug-in bridge | Marking strips 10 characters | |
| NSYTRR22MP | NSYTRAC22 | NSYTRACR22 | NSYTRACR22 | NSYTRAL22 | NSYTRABF510 | |
| NSYTRR22MPBL | NSYTRAC22BL | NSYTRACR22BL | NSYTRACR22BL | NSYTRAL23 | NSYTRABF520 | |
| - | - | - | - | NSYTRAL24 | NSYTRABF530 | |
| - | NSYTRAC23 | NSYTRACR23 | NSYTRACR23 | NSYTRAL25 | NSYTRABF540 | |
| - | - | NSYTRACR23BL | NSYTRACR23BL | NSYTRAL210 | NSYTRABF550 | |
| - | - | - | - | NSYTRAL210BL | NSYTRAB560 | |
| NSYTRR24MP | NSYTRAC24 | NSYTRACR24 | NSYTRACR24 | NSYTRAL210GR | NSYTRAB570 | |
| NSYTRR24MPBL | - | NSYTRACR24BL | NSYTRACR24BL | NSYTRAL220 | NSYTRAB580 | |
| - | NSYTRACE24 | NSYTRACRE24 | NSYTRACRE24 | - | NSYTRAB590 | |
| - | - | - | - | - | NSYTRAB5100 | |
| - | NSYTRACE26 | NSYTRACRE26 | NSYTRACPE26 | - | NSYTRAB51100 | |
| - | - | - | - | - | - | |
| - | NSYTRAC22 | NSYTRACR42 | NSYTRACR42 | NSYTRAL42 | NSYTRAB610 | |
| - | NSYTRAC22BL | - | - | NSYTRAL43 | NSYTRAB620 | |
| - | - | - | - | NSYTRAL44 | NSYTRAB630 | |
| - | NSYTRAC23 | NSYTRACR43 | NSYTRACP43 | NSYTRAL45 | NSYTRAB640 | |
| - | - | - | - | NSYTRAL410 | ... | |
| - | NSYTRAC24 | NSYTRACR44 | NSYTRACP44 | NSYTRAL410BL | NSYTRAB690 | |
| - | - | - | - | NSYTRAL410GR | NSYTRAB6100 | |
| - | NSYTRACE24 | NSYTRACRE44 | - | NSYTRAL420 | NSYTRAB61100 | |
| - | - | - | - | - | - | |
| - | NSYTRAC22 | NSYTRACR62 | - | NSYTRAL62 | NSYTRAB810 | |
| - | NSYTRAC22BL | - | - | NSYTRAL65 | NSYTRAB820 | |
| - | NSYTRAC22 | NSYTRACR102 | - | NSYTRAL102 | NSYTRAB1010 | |
| - | NSYTRAC22BL | - | - | - | NSYTRAB1020 | |
| - | NSYTRAC162 | NSYTRACR162 | - | NSYTRAL162 | NSYTRAB1010 | |
| - | - | - | - | - | NSYTRAB1020 | |
| - | NSYTRAC22 | NSYTRACR22 | NSYTRACR22 | - | - | |
| - | NSYTRAC23 | NSYTRACR23 | NSYTRACR23 | - | - | |
| - | NSYTRAC24 | NSYTRACR24 | NSYTRACR24 | - | - | |
| - | NSYTRAC22 | NSYTRACR42 | NSYTRACR42 | - | - | |
| - | NSYTRAC23 | NSYTRACR43 | NSYTRACP43 | - | - | |
| - | NSYTRAC24 | NSYTRACR44 | NSYTRACP44 | - | - | |
| - | NSYTRAC22 | NSYTRACR62 | - | - | - | |
| - | NSYTRAC22 | NSYTRACR102 | - | - | - | |
| - | NSYTRAC162 | NSYTRACR162 | - | - | - | |
| - | NSYTRAC23 | NSYTRACR23 | NSYTRACPK22 | - | - | |
| - | NSYTRAC23 | - | - | - | - | |
| - | - | NSYTRACR24 | NSYTRACPK23 | - | - | |
| - | - | - | - | - | - | |
| - | NSYTRACED24 | Included | - | - | - | |
| - | Included | - | - | - | - | |
| - | Included | - | - | - | - | |
| - | Included | - | - | - | - | |
| - | Included | Included | NSYTRACR42 | - | - | |
| - | NSYTRACT22 | - | - | - | - | |
| - | NSYTRACT22 | - | - | - | - | |
| - | NSYTRACT22 | - | - | - | - | |

Cable ends compatible with all technologies

| Wires corss section area | References |
|--------------------------|----------------------|
| 0.5 mm ² | DZ5CE005 DZ5CA005 |
| 0.75 mm ² | DZ5CE007 DZ5CA007 |
| 1 mm ² | DZ5CE010 DZ5CA010 |
| 1.5 mm ² | DZ5CE015 DZ5CA015 |
| 2.5 mm ² | DZ5CE025 DZ5CA025 |
| 4 mm ² | DZ5CE042 DZ5CA042 |
| 6 mm ² | DZ5CE062 DZ5CA062 |
| 10 mm ² | DZ5CE102 DZ5CA102 |
| 16 mm ² | DZ5CE162 DZ5CA162 |
| 25 mm ² | DZ5CE252 DZ5CA253 |
| 35 mm ² | DZ5CE352 DZ5CA352 |
| 50 mm ² | DZ5CE502 DZ5CA502 |

DZ5CE*** = standard insulated cable ends.
DZ5CA*** = markable insulated cable ends.



Functional partitioning

Main distribution

| | |
|--|------------|
| IS Service Indices | |
| Presentation | H-2 |
| Form partitioning | |
| Presentation | H-3 |
| Form 1 partitioning | |
| Covering the supply terminals on the incoming device | H-4 |
| Form 2 partitioning | H-5 |
| Form 3 partitioning | H-6 |
| Form 4 partitioning | H-7 |
| Other partitions | H-8 |

IS Service Indices Presentation

What is the service index?

- The service index is a tool for characterizing the functional units of low voltage switchboards.
- It allows users to express their needs in relation to the switchboard lifecycle (operation, maintenance, evolution) to meet the requirements of their site.

How is it characterized?

- The SI is a value expressed in a three digits format (from 1 to 3) which respectively translate the level of:
 - operation,
 - maintenance,
 - and evolution of the LV switchboard
- The value 1 offers the lowest service index and the value 3 the highest service index.
- The minimum index is 111 and the maximum is 333.

Note: The service index may be different in the same switchboard, for incomers or outgoings, in order to meet the customer needs.

| | 1st digit Exploitation The exploitation includes all the operations on the installation likely to be carried out by personnel electrician or non-electrician. | 2nd digit Maintenance Maintenance includes the maintenance operations, repair and control operations to sustain the characteristics of the switchboard. Assured by qualified personnel, they go from diagnosis to defective parts replacement. | 3rd digit Upgrade Upgrade is an adaptation of the installation by adding or replacing components. Some upgrades require an interruption of the functional unit concerned: power increase, change of technology, etc. Other evolutions can be done without interruption of the functional unit: addition of outgoings, etc. |
|----------|--|---|---|
| 1 | I accept that this operation will cause the complete shutdown of the switchboard. | I accept the complete stop of the switchboard. | I accept the complete stop of the switchboard. |
| 2 | I want this operation to result only in the complete shutdown of the only functional unit (1) concerned. | I want a limited interruption to the functional unit (1) concerned only. The refitting will be done by an intervention on the connections. | I want that the possible interruption be limited to the functional unit (1) concerned only. A stock of some predefined functional units is assured. |
| 3 | I want that this operation only stops the power of the functional unit (1) concerned, but enables automation tests that allow testing the installation in full size before restarting. | I want a limited interruption to the functional unit (1) concerned only. The refitting will be done without any intervention on the connections. | I want an operation limited to the functional unit (1) concerned, with no interruption of the switchboard. The evolution is free, within the limits imposed by the switchboard manufacturer. |

(1) Functional unit: part of an assembly comprising all the mechanical and electrical components that contribute to the performance of a single feature.

Service indices achievable in PrismaSeT P

| IS 211 Fixed | IS 231 or 232 Plug-in base | IS 331 or 332 Withdrawable on chassis | IS 223 Scalable system under power |
|---|---|---|---|
|  |  |  |  |
| IS 211 functional unit equipped with fixed circuit breakers | IS 231 functional unit equipped with a plug-in circuit-breaker | IS 232 reserve functional unit equipped with an empty plug-in base | IS 331 functional unit equipped with a withdrawable circuit breakers on chassis |
| | | | IS 332 reserve functional unit equipped with an empty chassis |
| | | | IS 223 possible under conditions. Consult us |

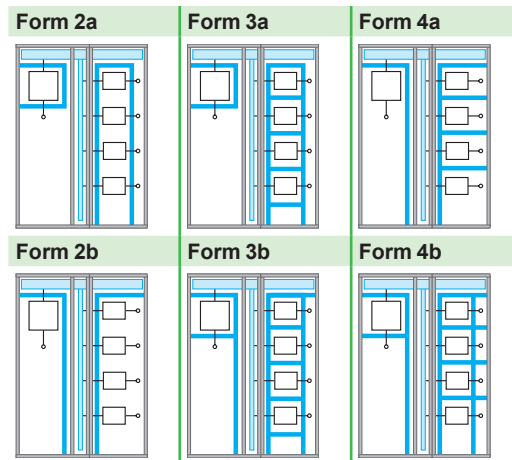
Forms partitioning

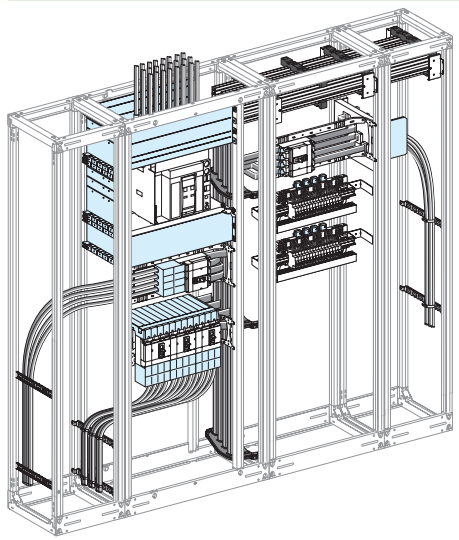
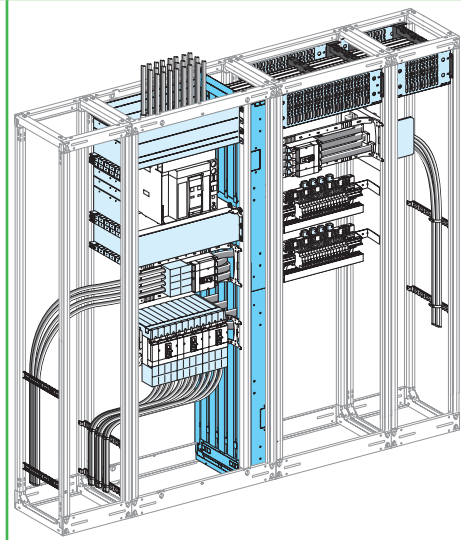
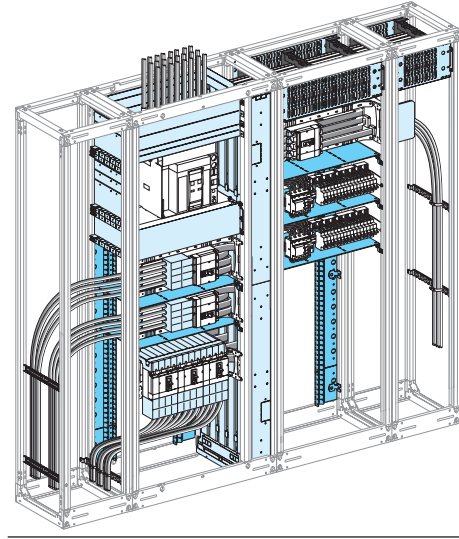
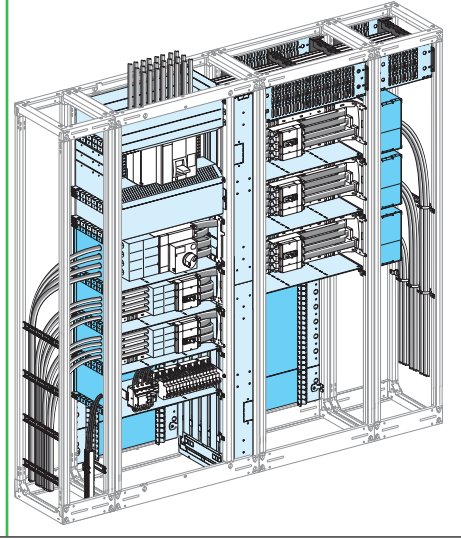
Presentation

What are the forms?

- The forms are metal partitions or molded material, removable by using tools or keys, which ensure the protection of operators against direct contact with power conductors when working on low voltage switchboards.
- They also protect internal elements of the switchboard against external aggressions (dust, pests, water ...).
- These forms are graduated from 1 to 4, with indices "a" or "b". Their use contributes to the level of service continuity required by the user.
- Forms have a cumulative effect (a higher form integrates the characteristics of the forms that precede it).
- The choice of a form is the subject to an agreement between the manufacturer and the user.
- The electrical panel must comply with the degree of protection IP 2X, according to standard IEC 61439-1 & 2.

PrismaSeT P offers solutions for forms 1, 2a, 2b, 3a, 3b, 4a, 4b.



| | |
|---|---|
| <p>Form 1 No internal separation</p>  | <p>Form 2 Separation between horizontal busbars, vertical busbars and functional units</p>  |
| <p>Form 3 Form 2 + separation of functional units from one another</p>  | <p>Form 4 Form 3 + separation of the terminals of the functional units from one another</p>  |



Form 1 partitioning

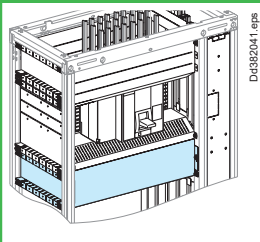
Covering the supply terminals on the incoming device

Main distribution

| | | Front connection with cables | | | | Canalis front connection | | | |
|--|------------------------------|------------------------------|---------------|------------------------------|----------------|--------------------------|------------------------------|----------------|---------------|
| <p>MTZ2 Only MTZ1 and ComPacT</p> | | <p>D0382019 eps</p> | | | | <p>D0382020 eps</p> | | | |
| Devices | Fixed or withdrawable device | Fixed | With-drawable | Fixed or withdrawable device | Fixed | With-drawable | Fixed or withdrawable device | Fixed | With-drawable |
| | MasterPact | ComPacT | | MasterPact | ComPacT | | MasterPact | ComPacT | |
| | MTZ2 MTZ1 | NS630b/1600 | | MTZ2 MTZ1 | NS630b/1600 | | MTZ2 MTZ1 | NS630b/1600 | |
| Cover | LVS04861 LVS04852 | LVS04851 | LVS04852 | LVS04861 LVS04852 | LVS04851 | LVS04852 | LVS04861 LVS04852 | LVS04851 | LVS04852 |
| Canalis additional cover | - | - | - | LVS04871 LVS04871 | LVS04871 | LVS04871 | LVS04871 LVS04871 | LVS04871 | LVS04871 |

| | | Rear connection with cables | | | | Canalis rear connection | | | |
|--|------------------------------|-----------------------------|---------------|------------------------------|----------------|-------------------------|------------------------------|----------------|---------------|
| <p>MTZ2 Only MTZ1 and ComPacT</p> | | <p>D0382021 eps</p> | | | | <p>D0382022 eps</p> | | | |
| Devices | Fixed or withdrawable device | Fixed | With-drawable | Fixed or withdrawable device | Fixed | With-drawable | Fixed or withdrawable device | Fixed | With-drawable |
| | MasterPact | ComPacT | | MasterPact | ComPacT | | MasterPact | ComPacT | |
| | MTZ2 MTZ1 | NS630b/1600 | | MTZ2 MTZ1 | NS630b/1600 | | MTZ2 MTZ1 | NS630b/1600 | |
| Cover | LVS04863 LVS04854 | LVS04853 | LVS04854 | LVS04863 LVS04854 | LVS04853 | LVS04854 | LVS04863 LVS04854 | LVS04853 | LVS04854 |
| Canalis additional cover | - | - | - | LVS04871 LVS04871 | LVS04871 | LVS04871 | LVS04871 LVS04871 | LVS04871 | LVS04871 |

Covering of the connection between an incoming device and lateral busbars



| | MasterPact MTZ2 | MasterPact MTZ1 | ComPacT NS630b/1600 | ComPacT NS1600b/3200 (1) | ComPacT INS-INV630b/2500 |
|------------------------------------|-----------------|-----------------|---------------------|--------------------------|--------------------------|
| Cover with copper connection | LVS04926 | LVS04926 | LVS04926 | LVS04926 | LVS04926 |
| Additional cover | LVS04927 | - | - | - | - |
| Cover with Linergy LGYE connection | LVS04925 | LVS04925 | - | - | - |
| Additional cover | LVS04928 | - | - | - | - |
| Form partition depth | 600 | 400 | 400 | 400 (1) | 400 |

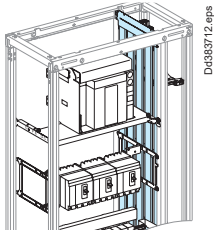
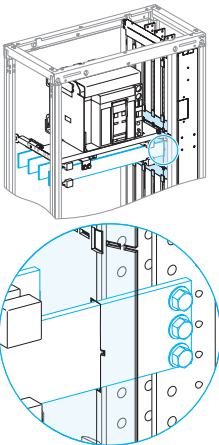
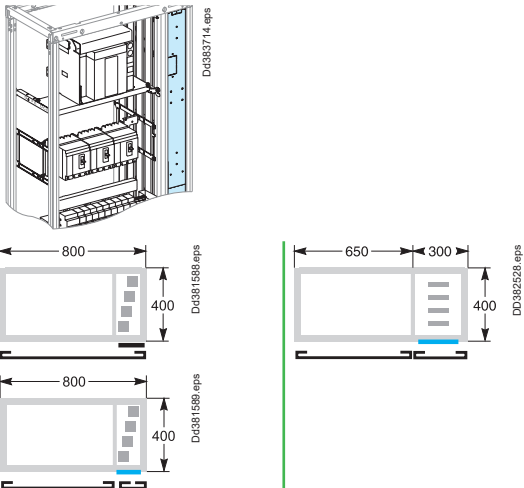
(1) For more information > page E-14.

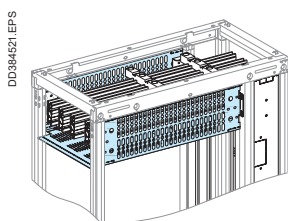
Note: Cubicle depth based on the depth of the incoming device.

Main distribution

Lateral partitioning

- Made of:
 - four supports that clip to the framework
 - five extruded slats that clip to the supports
 - two metal plates at the top and bottom that can be cut out to pass a PE or PEN conductor, or one or two 30 x 60 mm trunking sections
- Compliance with standard IEC 695.2.1 concerning withstand to fire.

| | Side barrier | Restoration kit | Front or rear barrier |
|------------------------|---|---|---|
| |  |  |  |
| | | | W = 150 mm W = 300 mm |
| Characteristics | <ul style="list-style-type: none"> ■ Vertical barrier made of insulating slats ■ can be installed on both sides of Linergy BS or Linergy LGY busbars ■ The space between the slats is sufficient for prefabricated connections (one copper bar, 5 or 10 mm thick, or insulated flexible bars) or for cables up to 35 mm², while maintaining the degree of protection IP2X | <ul style="list-style-type: none"> ■ This kit enables passage of the connection between a device > 1600 A (MTZ2, INS-INV) and lateral vertical busbars. ■ It is made up of an insulated plate (six modules high = 300 mm) that can be cut as required, supplied with supports and the necessary hardware. ■ Has to be use with MTZ2 interlocking mounting plate | <p>Can be installed in the front and rear of the busbar compartment. Protects against direct contact with the busbars.</p> <ul style="list-style-type: none"> ■ For 800 mm cubicles : <ul style="list-style-type: none"> □ the door is systematically supplied with a barrier. □ the cover frame is supplied with a wicket door, W = 150 mm, on which devices can be mounted. A front barrier is indispensable. ■ A barrier is required at the rear of the busbar compartment in cubicles that are 600,800 and 1000 mm deep. |
| Catalog number | LVS04922 | LVS04924 | LVS04921 LVS04920 |



Horizontal partitioning

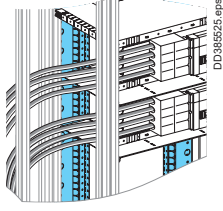
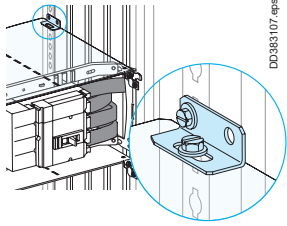
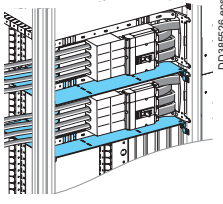
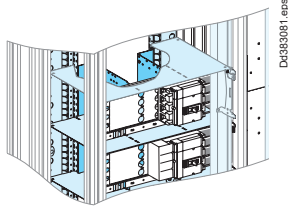
- Set of two barriers (front and rear), plus a slotted rear panel for efficient natural convection in the switchboard.
- The set can be used to partition horizontal busbars installed at the top or bottom of the cubicle.
- The space required for the busbars is not increased.

| | | Linergy LGYE | | | | Linergy BS | | |
|--------------|------------|--------------|----------|---------------------|---------------------|--------------|----------|---------------------|
| | | Top position | | Bottom position | | Top position | | Bottom position |
| | | ≤ 2500 A | ≥ 3200 A | ≤ 2500 A | ≥ 3200 A | ≤ 3200 A | 4000 A | ≤ 3200 A |
| Nb of module | In | 3 | 4 | 3 | 4 | 3 | 4 | 3 |
| D400 | | | | | | | | |
| Cover | W = 300 | LVS04973 | LVS04963 | LVS04973 + LVS04915 | LVS04963 + LVS04915 | LVS04973 | LVS04963 | LVS04973 + LVS04915 |
| | W = 400 | LVS04974 | LVS04964 | LVS04974 + LVS04915 | LVS04964 + LVS04915 | LVS04974 | LVS04964 | LVS04974 + LVS04915 |
| | W650 | LVS04976 | LVS04966 | LVS04976 + LVS04919 | LVS04966 + LVS04919 | LVS04976 | LVS04966 | LVS04976 + LVS04919 |
| | W650 + 150 | LVS04976 | LVS04966 | LVS04976 + LVS04919 | LVS04966 + LVS04919 | LVS04976 | LVS04966 | LVS04976 + LVS04919 |
| | W800 | LVS04978 | LVS04968 | LVS04978 + LVS04919 | LVS04968 + LVS04919 | LVS04978 | LVS04968 | LVS04978 + LVS04919 |
| D600 | | | | | | | | |
| Cover | W = 300 | LVS04983 | LVS04963 | LVS04983 + LVS04915 | LVS04963 + LVS04915 | LVS04983 | LVS04963 | LVS04983 + LVS04915 |
| | W = 400 | LVS04984 | LVS04964 | LVS04984 + LVS04915 | LVS04964 + LVS04915 | LVS04984 | LVS04964 | LVS04984 + LVS04915 |
| | W650 | LVS04986 | LVS04966 | LVS04986 + LVS04919 | LVS04966 + LVS04919 | LVS04986 | LVS04966 | LVS04986 + LVS04919 |
| | W650 + 150 | LVS04986 | LVS04966 | LVS04986 + LVS04919 | LVS04966 + LVS04919 | LVS04986 | LVS04966 | LVS04986 + LVS04919 |
| | W800 | LVS04988 | LVS04968 | LVS04988 + LVS04919 | LVS04968 + LVS04919 | LVS04988 | LVS04968 | LVS04988 + LVS04919 |

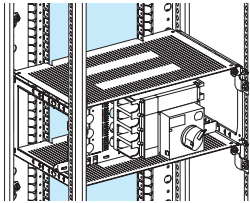
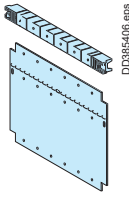
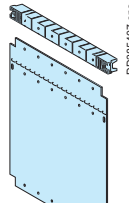
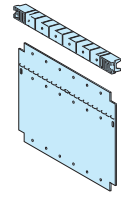
Note: when the busbars are at the bottom of the cubicle, gland plates are mandatory > page F-19.

Note: to protect horizontal busbars installed at the bottom of the cubicle, the slotted horizontal panel must be replaced by a plain barrier.(LVS04915 or LVS04919) and add a free support LVS04662.

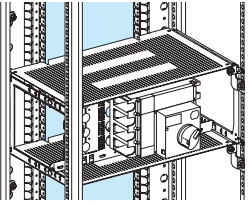
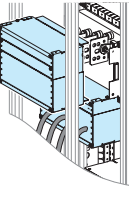

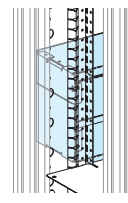
Form 3 partitioning

| | | Front connection | | Rear connection | |
|-----------------|---|---|---|--|---|
| | |  |  |  |  |
| | | Rear support for partitions W = 650 mm | 6 universal angle brackets | Horizontal metal partition W = 650 mm | Rear connection |
| Characteristics | Two uprights secured to the framework (400 mm deep) or to the intermediate uprights (600 mm deep frameworks). | A set of brackets can be used to install partial Form 3 partitioning in the cubicle. It does not take up any useful space in the switchboard. | A horizontal metal partition can be used to physically separate functional units from one another. It does not take up any useful space in the switchboard. | Vertical partitions (two cat. no. per functional unit) | |
| | | | | 3 to 4 modules | 5 to 6 modules |
| Catalog numbers | LVS04943 | LVS03583 | LVS04901 | LVS04955 | LVS04956 |

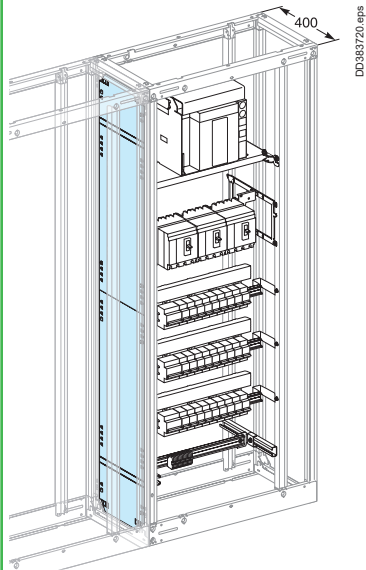
Form 4a partitioning

| Forme 4 - direct connection to the device | | | | |
|---|--|--|---|--|
| Front connection | | Rear connection | | |
| |  |  |  |  |
| | Backplate | Gland plate | | |
| Characteristics | <ul style="list-style-type: none"> a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks | <ul style="list-style-type: none"> a plastic gland plate that can be easily cut out (one for each functional unit) and is mounted on the framework. | | <ul style="list-style-type: none"> a gland plate at the rear of each functional unit. It is connected directly to the rear supports for Form 3 partitions |
| Catalog numbers | LVS04946 | LVS04951 | LVS04952 | LVS04951 |
| | | 3 to 4 modules | 5 to 6 modules | 4 to 6 modules |
| | | | | 3 to 5 modules |

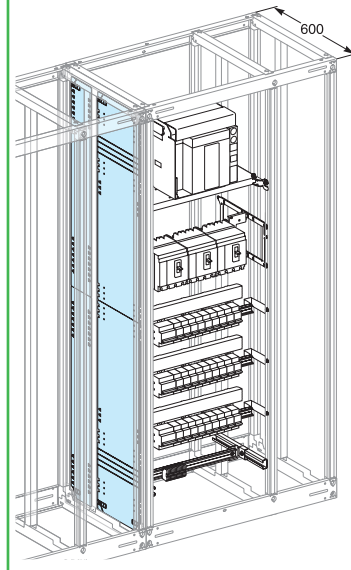
Form 4b partitioning

| Forme 4b - connection transfer | | | | |
|--------------------------------|--|--|---|--|
| In a lateral compartment | | At the rear of the cubicle | | |
| |  |  |  |  |
| | Backplate | Cover | | |
| Characteristics | <ul style="list-style-type: none"> a backplate (one cat. no. per cubicle) made up to two metal half panels mounted on the rear supports for Form 3 partitions. This backplate is not indispensable for 400 mm deep frameworks | <ul style="list-style-type: none"> a cover with plastic gland plates that can be easily cut out on the side and bottom. | | <ul style="list-style-type: none"> It comprises two height-adjustable metal flanges and plastic gland plates that can be easily cut out at the rear and bottom. |
| Catalog numbers | LVS04946 | LVS04953 | LVS04954 | LVS04953 |
| | | 3 to 5 modules W150 | 4 to 6 modules W200 | 4 to 6 modules |
| | | | | 3 to 5 modules |

Inter-cubicle partition



DD385720.eps



Dd385722.eps

D400

D600

Characteristics

Metal partition, used to separate two adjacent cubicles.
It is made up of two panels, each 850 mm high.
The top and bottom ends have knock-outs for busbars, PE/PEN conductors or auxiliary wiring.
Supplied with the necessary supports and hardware, the partition is mounted on the framework and does not hinder installation of the functional mounting plates.

Catalog numbers

LVS04911

LVS04911 + LVS04931

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After-sales accessories

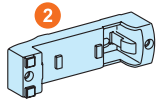
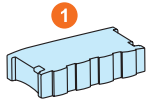
Spare parts

Linergy BW busbar accessories

Linergy BW accessories, 160/400 A

LVS01210

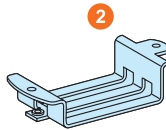
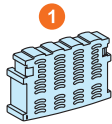
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- 1 2 end plugs
- 2 2 angle brackets support
- 3 2 screws

Accessoires Linergy BW 630 A

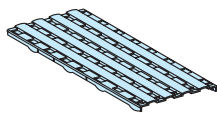
LVS01211



- 1 2 end plugs
- 2 2 metal angle brackets
- 3 2 brackets for support
- 4 2 hexagonal blocks
- 5 2 self-tapping screws

2 IPxxB clipon covers for Linergy BW, 160 to 400 A

LVS01201

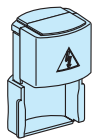


Linergy FM busbar accessories (IP30)

4 terminal covers for 200 A Linergy FM

LVS01202

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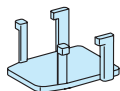


Linergy busbar accessories (IP30)

12 chocks for Linergy busbars

LVS01109

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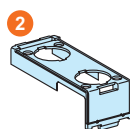


Framework accessories

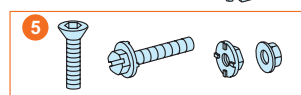
Framework accessories

LVS01104

DD38462.epps



- 1 4 top sealing components
- 2 4 bottom sealing components
- 3 4 bottom cross-piece plugs
- 4 2 adjacent mounting spacer tubes



- 5 2 mounting hardware
- 6 12 conical washers

Front-plate accessories

10 sets of 2 grips quarter turn

LVS01094

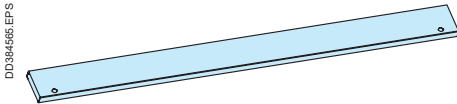


DD384582.eps

Accessory

Plain wicket door, W = 150 mm

LVS01110

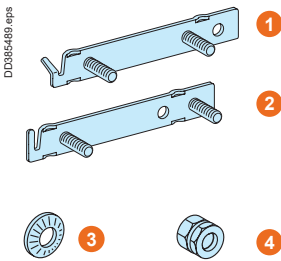


DD384565.EPS

Linergy LGYE busbar accessories

Linergy LGYE connection screwplate kit

LVS01130



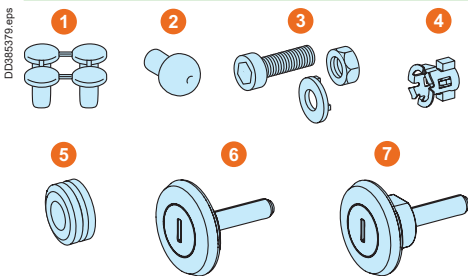
DD384588.eps

- 1 4 plates for 2000 - 4000 A joint
- 2 4 flat plates for 3200 - 4000 A connection
- 3 16 conical contact washer Ø8
- 4 16 torque nut M8

Rear accessories

Accessories IP55

LVS01101



DD385379.eps

- 1 4 IP55 framework plugs
- 2 4 stop doors
- 3 base + screw + washer + nut
- 4 8 cage nuts
- 5 3 white grommet plugs
- 6 2 IP55 roof and rear panel fixing systems
- 7 6 IP55 rear panel fixing systems

Rear panel accessories

LVS01106



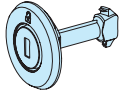
DD385977.eps

- 1 8 IP30 rear panel fixing systems
- 2 2 IP30 roof and rear panel fixing systems

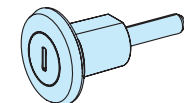
After-sales accessories

Spare parts



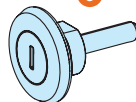
Side panel accessories

| | | |
|---|-------------------------|----------|
| Side panel accessories | | LVS01100 |
| DD385879.eps  | 1 16 fixing system IP30 | |



Accessories for IP55 side panel

| | | |
|---|---|----------|
| Accessories for IP55 side panel | | LVS01102 |
| DD384466.EPS  | 1 16 fixing system IP55 2 16 cage nuts | |

Accessories for IP55 roof

| | | |
|---|--|----------|
| Accessories for IP55 roof | | LVS01103 |
| DD385306.eps    | 1 4 lifting ring plugs 2 6 cage nuts 3 6 mounting sets of screw fixing IP55 for roof | |

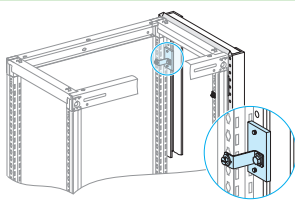
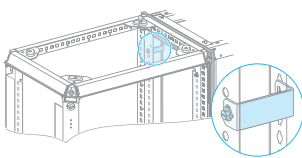
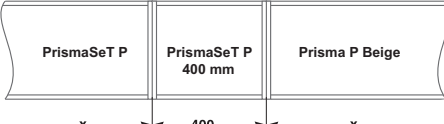
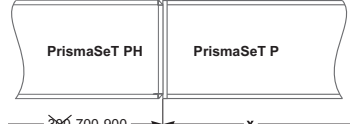
Roof accessories

| | | |
|---|---|----------|
| Roof accessories | | LVS01112 |
| DD385378.eps   | 1 4 lifting ring plugs 2 6 IP30 roof and rear panel fixing systems | |

Front plate support frames

| | | |
|--|--|----------|
| Front plate support striker kit for LVS08564 - LVS08566 | | LVS01123 |
| DD384671.EPS  x 4   | | |

Side-by-side combination kit

| | PrismaSeT P/Prisma P Beige | PrismaSeT P/PrismaSeT PH |
|-----------------|---|---|
| | DD385226.eps  | DD383847.eps  |
| Catalog number | - | LVS01198 |
| Characteristics | ■ To add a PrismaSeT P cubicle to an existing Prisma P Beige installation, use the combination kit and a 400 mm wide frame. | ■ PrismaSeT PH/PrismaSeT P side-by-side combination kit Note: When combining PrismaSeT PH and PrismaSeT P IP55 enclosures, use the IP55 sealing kit for side-by-side combinations (LVS08717) together with the side-by-side combination kit (LVS01198). |
| | DD385278.eps  | DD385278.eps  |

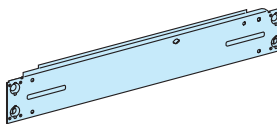
After-sales accessories

Spare parts

Framework accessories

Framework accessories

DD384572.EPS



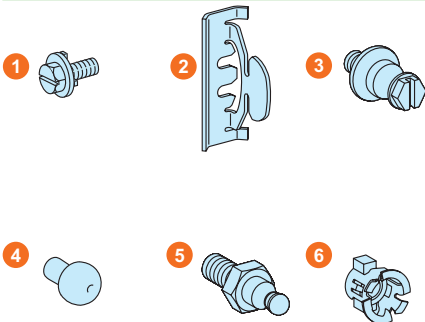
- Frame bottom cross-member W400 to use with LVS08564 **LVS01119 (1)**
 - Frame bottom cross-member W650 to use with LVS08566 **LVS01120 (1)**
 - Frame bottom cross-member W150+650 to use with LVS08566 **LVS01121 (1)**
 - Frame bottom cross-member W650+150 to use with LVS08566 **LVS01122 (1)**
- (1) Spare parts on stock in RAL 9003 only.

Door accessories

Closing accessories

LVS01105

DD384617.eps

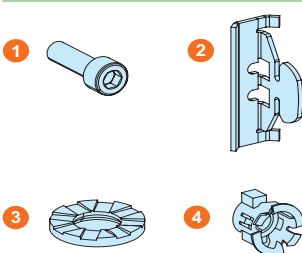


- 1 4 screws THF M6 x 16
- 2 4 door strikes
- 3 3 1/4 turn studs
- 4 2 stop doors
- 5 3 hinge pins
- 6 7 captive nuts for frame

Door strike IP30/55 Ipc Arc

LVS01124

DD436601.eps

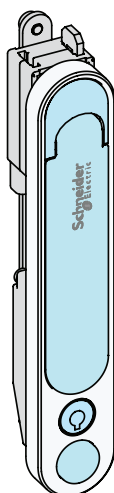


- 1 4 screws MSC HXG SK M6 x 20
- 2 4 door strike stoppers
- 3 4 washers
- 4 4 captive nuts for frame

PrismaSeT P Rotary Handle Spare Parts

LVS01219

mz3131101_1.eps



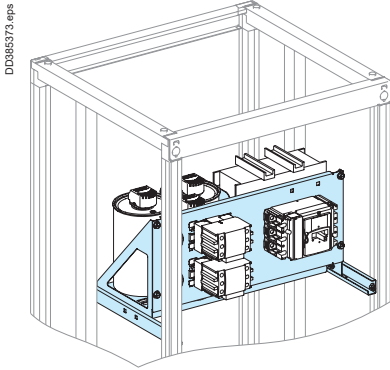
- 1 Handle housing block
- 2 P adapter link part
- 3 Screw, pan head, M5x8
- 4 The key of 405
- 5 1 crosshead screw
- 6 Omega fix part
- 7 Driver block
- 8 Hex locking screw, M6x10
- 9 Self tapping screw, pan head, ST3.5x15

Optimise electrical networks

Improving power quality

Spare parts

To improve power quality, Schneider Electric proposes two power-factor correction systems, VarplusCan. Both are designed for optimum installation in PrismaSeT P.

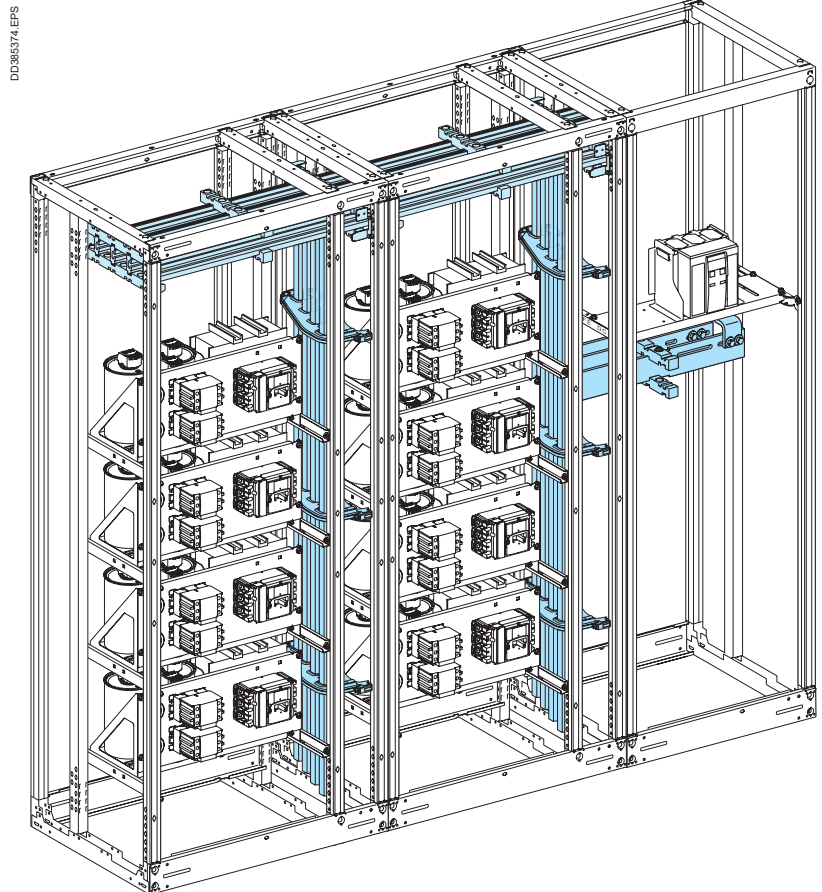


PrismaSeT P enclosures are designed for installation of the new VarplusCan power factor correction modules that improve the quality of the electrical distribution system and reduce consumption of reactive energy. The modules are made up of capacitors, contactors and devices protecting against internal faults.

Installation

> page F-21 for information on installation in the enclosure.

The modules can be supplied by vertical busbars, e.g. Linergy.



Optimise electrical networks

Additional equipment to optimise electrical installations

Spare parts

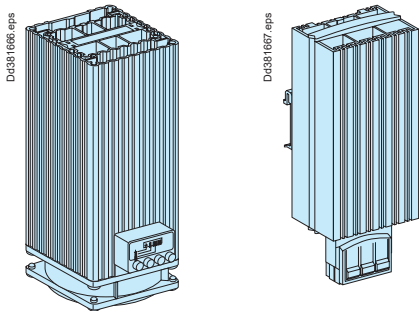
During design or during subsequent operation, electrical installations are increasingly outfitted with components designed to optimise energy consumption.

With PrismaSeT P, most of these products can already be added to the switchboard.

By limiting the temperature within the switchboard, it is possible to extend the life of the equipment and optimise its use.

In addition, electricity consumption is reduced because equipment in good condition has lower losses.

Heaters

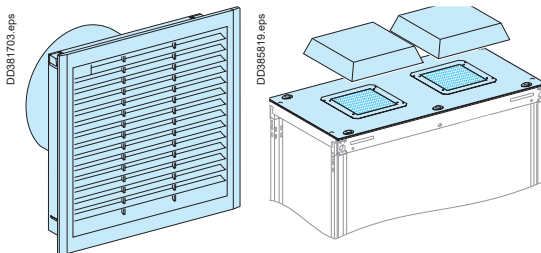


Heaters contribute to equipment optimisation by limiting condensation, corrosion and, above all, leakage currents along surfaces.

Installation and characteristics

> page F-33

Fans

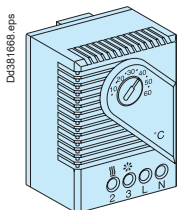


Several types of fans are available: enclosure wall or roof-mount versions. They are particularly useful for switchboards installed in temperate environments or when the degree of protection of the enclosure is high (IP55).

Installation and characteristics

> page F-32.

Thermostat

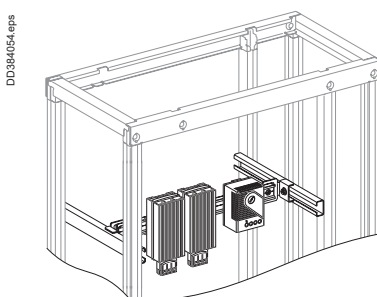


Thermostats are used to limit the temperature inside switchboards when heaters and fans are installed, thus reducing heat losses.

Installation and characteristics

> page F-34.

Installation



Heaters and thermostats simply clip onto a modular rail.

See Universal Enclosures catalog, cat. no. **UE12MK01EN**.

Designing PrismaSeT P power circuits

Presentation and approach

Electrical characteristics

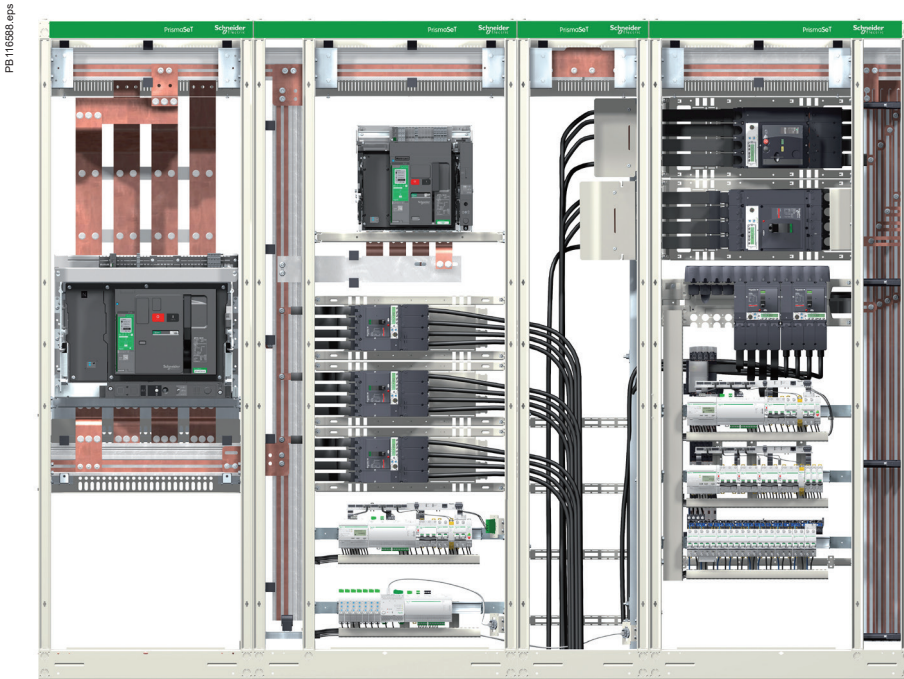
PrismaSeT P takes into account the installation and connection conditions of Schneider Electric devices. The entire installation complies with standard IEC 60439-1. The result is a type tested switchboard.

In the following pages you will find a number of examples, validated for PrismaSeT P switchboards, intended to assist in determining the busbars as well as the upstream and downstream connections for the installation.

The examples assume that the devices have already been selected.

A complete process involves a number of steps before making final choices (transformer, conductors, protection, etc.).

Schneider Electric offers a number of tools to assist in designing a complete installation (technical guides, software).



Busbar sizing

The factors that must be taken into account in determining the size of busbars include:

- the diversity factor.

Not all the loads supplied by a set of busbars are used at full rated load or at the same time. The diversity factor is the means to determine the maximum load current used to size the busbars.

Standard IEC 61439-1 and 2 §4.7 specifies the table below.

| Number of circuits | Diversity factor |
|--------------------|------------------|
| 2 and 3 | 0,9 |
| 4 and 5 | 0,8 |
| 6 and 9 | 0,7 |
| 10 and more | 0,6 |

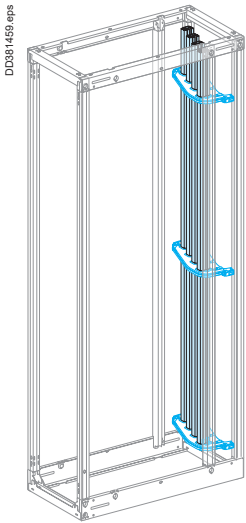
- the degree of protection IP.
- the ambient temperature around the switchboard.

Designing PrismaSeT P power circuits

Presentation and approach

Electrical characteristics

Busbars



The maximum load current for a set of busbars is a function of the thermal environment.

The type and the size of the conductors must be determined in view of carrying the required currents taking into account the temperatures reached in the switchboard. These conductors are subjected to additional heat rise caused by the flowing current (joule effect) and the connected devices.

The temperatures reached by the conductors and the insulating materials, etc. must not exceed the maximum temperatures for which the products were designed.

Schneider Electric busbars and distribution blocks are sized to operate without any particular constraints for the assemblies in PrismaSeT P switchboards operating under normal environmental conditions (standard switchboard configuration, 35 °C outside the switchboard, etc.).

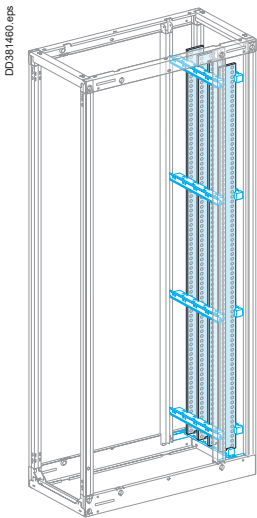
To determine **Linery LGY busbars** or **Linery LGYE** required

> [pages I-13, I-15 and I-16](#).

They can be used to determine:

- the type of Linery LGY busbars or Linery LGYE, as a function of:
 - the current
 - the IP value
 - the ambient temperature around the switchboard
 - ICW/1s.

- Linery LGY busbars: $I \leq 1600$ A
- Double Linery LGY busbars: $1600 \text{ A} < I \leq 3200$ A
- Linery LGYE busbars: ≤ 4000 A.



To determine the required Linery BS busbars:

horizontal busbars > [page I-14](#)

vertical busbars > [page I-15](#).

They can be used to determine:

- the permissible current as a function of:
 - the size of the busbars
 - the number of bars
 - the ambient temperature around the switchboard
 - the IP value
 - ICW/1s.

- Linery BS copper busbars 5 mm thick: $I \leq 1600$ A.
- Linery BS copper busbars 10 mm thick: $I \leq 3200$ A.

Connection of devices ≥ 630 A and busbar connections

To determine the size of upstream and downstream connections for devices > [page <?>](#).

They can be used to determine:

- the size of copper busbars
- the maximum permissible current.

As a function of:

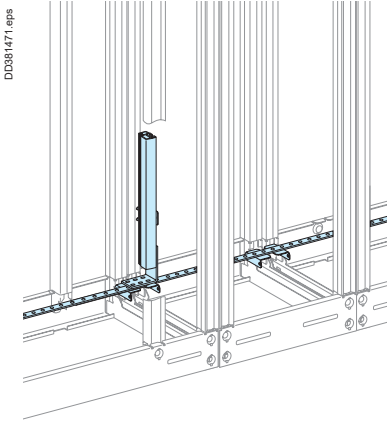
- the type of circuit breaker
- the IP value
- the ambient temperature around the switchboard
- the type of installation.

Designing PrismaSeT P power circuits

Presentation and approach

Electrical characteristics

Designing the PE protective conductor



The protective conductor must be sufficiently sized and securely installed in the switchboard to accept the thermal and electrodynamic constraints of the fault current.

It must be connected to the exposed conductive parts of the switchboard. It must be accessible to enable connections both in the factory and on site.

Optimised calculation method

Use the calculation equation indicated in standard IEC 61439-1 & 2:

$$S_{PE} = \frac{\sqrt{I^2 t}}{k}$$

- SPE: cross-sectional area of the PE in mm²
- I: value of the phase-to-earth fault current = 60 % of the value of the phase-to-phase fault current (IEC 61439-1 §8.2.4.2)
- t: time the fault current flows in seconds
- k: coefficient that depends on the type of metal, k = 143 for a copper conductor with PVC insulation.

Example:

- I_{sc} = 36 kA rms C the value of the phase-to-earth fault current = 60 % of the value of the phase-to-phase fault current (standard IEC 61439-1 and 2 § 8.4.3.2.3 and 10.11.5.6), i.e.: 36 x 0.6 = 21.6 kA
- maximum time delay for the control unit: 0,5 s
- k = 143 for copper conductors with PVC insulation.

The calculation is therefore:

$$S_{PE} = \frac{\sqrt{21600^2 \times 0,5}}{143} = 106,8 \text{ mm}^2$$

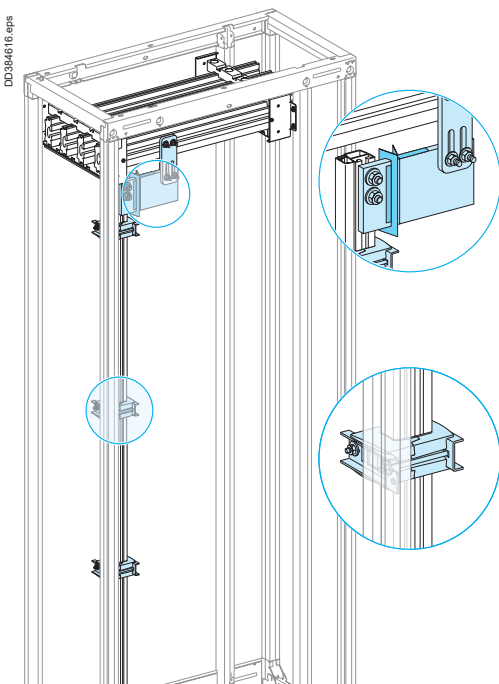
The PE conductor must therefore be a 25 x 5 mm bar (= 125 mm²).

Simplified method (based on the equation above)

Use the table below to determine the size of the PE conductor as a function of device short-circuit current I_{sc}.

| Size of PE conductor | All Schneider Electric devices | |
|-------------------------------------|--------------------------------|-----------------------------|
| I _{sc} ≤ 40 kA | 1 Linergy BS bar, 25 x 5 mm | |
| I _{sc} ≤ 65 kA | 1 Linergy BS bar, 50 x 5 mm | Linergy LGY 630 - LVS04502 |
| I _{sc} > 65 kA but < 80 kA | 1 Linergy BS bar, 50 x 5 mm | Linergy LGY 800 - LVS04503 |
| I _{sc} = 100 kA | 1 Linergy BS bar, 50 x 5 mm | Linergy LGY 1000 - LVS04505 |

Implementing the PEN protective conductor



The size of the PEN is determined in the same IEC manner as a neutral conductor, i.e.:

- for copper single-phase circuits or sized ≤ 16mm², it must be the same size as the phase conductors
 - for copper three-phase circuits sized > 16 mm², it can be:
 - the same size as the phase conductors
 - smaller on the condition that:
 - the current likely to flow in the neutral during normal operation is less than the permissible current for the conductor
 - the power rating of single-phase loads does not exceed 10 % of the total rating.
- The conductor must be accessible to enable connections both in the factory and on site, as well as checks on the tightness of connections.

Practical guidelines to install PEN

According to standard IEC 61439-1 and 2, the practical guidelines for implementing the PEN are the following:

- at the entry to the assembly, the PEN connection must be next to the phase connections
 - within the assembly, the PEN does not need to be insulated from the exposed conductive parts (except on sites where there is a risk of fire or explosion)
 - the size of the conductor must be at least equal to that of the neutral
 - the size must remain constant throughout the main busbars
 - the change from a TNC to a TNS system must take place at a single point in the switchboard, via a marked neutral-disconnection bar that is accessible and can be dismantled to facilitate the impedance measurement of the fault loop
 - after the TNS creation point, it is forbidden to recreate a TNC system.
- The PE and the neutral must meet their specific requirements.

Linergy LGY PEN kit

> page G-37

Designing horizontal busbars

Linery LGYE

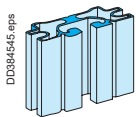
Electrical characteristics

Permissible current and selection of Linery LGYE busbars Up to 4000 A

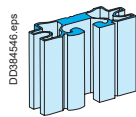
Linery LGYE section

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| Linery LGYE 630 | 680 | 580 | 650 | 550 | 630 | 530 | 590 | 500 | 550 | 470 | 520 | ■ |
| Linery LGYE 800 | 860 | 740 | 830 | 710 | 800 | 680 | 750 | 630 | 700 | 600 | 660 | ■ |
| Linery LGYE 1000 | 1080 | 920 | 1040 | 884 | 1000 | 850 | 940 | 790 | 880 | 750 | 830 | ■ |
| Linery LGYE 1250 | 1350 | 1150 | 1300 | 1100 | 1250 | 1050 | 1170 | 1000 | 1100 | 930 | 1020 | ■ |
| Linery LGYE 1600 | 1730 | 1580 | 1690 | 1530 | 1650 | 1480 | 1550 | 1380 | 1450 | 1300 | 1350 | ■ |
| Linery LGYE 2000 | 2200 | 1810 | 2100 | 1730 | 2000 | 1650 | 1900 | 1560 | 1810 | 1480 | 1720 | ■ |
| Linery LGYE 2500 | 2640 | 2230 | 2540 | 2160 | 2440 | 2100 | 2310 | 2000 | 2240 | 1930 | 2120 | ■ |
| Linery LGYE 3200 | 3400 | 3020 | 3300 | 2900 | 3200 | 2800 | 3040 | 2660 | 2890 | 2520 | 2750 | ■ |
| Linery LGYE 4000 | 3800 | 3510 | 3710 | 3430 | 3620 | 3350 | 3450 | 3180 | 3280 | 3020 | 3120 | ■ |

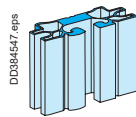
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



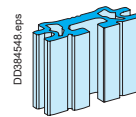
Section 630 A.
Cat. No. LVS04560.



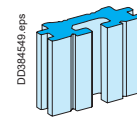
Section 800 A.
Cat. No. LVS04561.



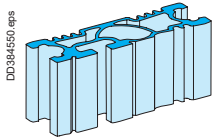
Section 1000 A.
Cat. No. LVS04562.



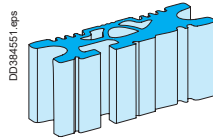
Section 1250 A.
Cat. No. LVS04563.



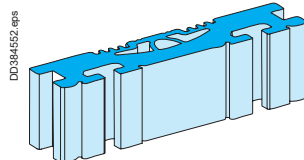
Section 1600 A.
Cat. No. LVS04564.



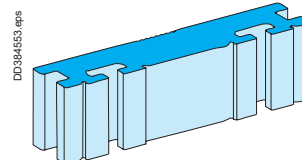
Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.



Section 4000 A.
Cat. No. LVS04568.

Designing horizontal busbars

Linery BS

Electrical characteristics

Permissible current and selection of horizontal busbar

The goal is to optimise busbar size according to the installation and operating criteria.

Up to 1600 A

Linery BS bars, 5 mm thick

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|--------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| 1 Linery BS bar, 60 x 5 | 890 | 840 | 850 | 790 | 800 | 750 | 760 | 700 | 710 | 650 | 660 | ■ |
| 1 Linery BS bar, 80 x 5 | 1130 | 1050 | 1080 | 990 | 1000 | 900 | 970 | 870 | 910 | 810 | 860 | ■ |
| 2 Linery BS bars, 60 x 5 | 1580 | 1420 | 1500 | 1350 | 1400 | 1250 | 1350 | 1180 | 1260 | 1090 | 1180 | ■ |
| 2 Linery BS bars, 80 x 5 | 2010 | 1820 | 1920 | 1720 | 1800 | 1600 | 1720 | 1510 | 1610 | 1390 | 1510 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Up to 3200 A

Linery BS bars, 10 mm thick

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|----------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| 1 Linery BS bar, 50 x 10 | 1330 | 1220 | 1260 | 1160 | 1200 | 1080 | 1130 | 1010 | 1060 | 940 | 990 | ■ |
| 1 Linery BS bar, 60 x 10 | 1550 | 1400 | 1470 | 1320 | 1400 | 1250 | 1320 | 1160 | 1240 | 1070 | 1160 | ■ |
| 1 Linery BS bar, 80 x 10 | 1990 | 1800 | 1890 | 1700 | 1800 | 1600 | 1700 | 1500 | 1600 | 1390 | 1500 | ■ |
| 2 Linery BS bars, 50 x 10 | 2270 | 2090 | 2160 | 1980 | 2050 | 1850 | 1930 | 1740 | 1810 | 1610 | 1690 | ■ |
| 2 Linery BS bars, 60 x 10 | 2550 | 2270 | 2420 | 2140 | 2300 | 2000 | 2170 | 1870 | 2030 | 1720 | 1900 | ■ |
| 2 Linery BS bars, 80 x 10 | 3110 | 2820 | 2970 | 2660 | 2820 | 2500 | 2660 | 2330 | 2500 | 2160 | 2330 | ■ |
| 2 Linery BS bars, 100 x 10 | 3650 | 3280 | 3490 | 3100 | 3300 | 2900 | 3130 | 2720 | 2950 | 2510 | 2750 | ■ |
| 2 Linery BS bars, 120 x 10 | 4160 | 3760 | 3960 | 3550 | 3760 | 3340 | 3560 | 3100 | 3340 | 2880 | 3120 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example:

Two 50 x 10 mm bars can be used for a 2160 A current with an IP ≤ 31 and an ambient temperature of 30 °C around the switchboard.

Where possible, use of 10 mm bars is worthwhile in terms of the In/Isc:

■ gain in time during switchboard mounting given, where applicable, the lesser number of bars installed

■ for short-circuits, the rigidity of the bars means fewer busbar supports.

Recommendation:

Use 5 mm bars for In ≤ 1600 A and low Icw values (40 kA rms).

Use 10 mm bars for In > 1600 A and medium to high Icw values (> 40 kA rms).

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing vertical busbars

Lineryg LGY

Electrical characteristics

Permissible current and selection of Lineryg LGY busbars

The goal is to optimise busbar size according to the installation and operating criteria.

Up to 3200 A

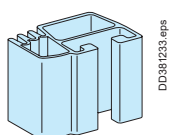
Lineryg LGY section

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|-----------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| Lineryg LGY 630 | 750 | 680 | 710 | 630 | 680 | 590 | 630 | 550 | 590 | 530 | 550 | ■ |
| Lineryg LGY 800 | 920 | 840 | 880 | 800 | 840 | 760 | 800 | 720 | 760 | 680 | 720 | ■ |
| Lineryg LGY 1000 | 1140 | 1040 | 1090 | 990 | 1040 | 950 | 990 | 900 | 950 | 850 | 900 | ■ |
| Lineryg LGY 1250 | 1410 | 1290 | 1350 | 1230 | 1290 | 1170 | 1230 | 1100 | 1170 | 1050 | 1100 | ■ |
| Lineryg LGY 1600 | 1800 | 1650 | 1720 | 1580 | 1650 | 1480 | 1580 | 1390 | 1480 | 1320 | 1390 | ■ |
| Lineryg LGY 2000 (2 x 1000) | 2200 | 2000 | 2100 | 1900 | 2000 | 1820 | 1900 | 1720 | 1820 | 1620 | 1720 | ■ |
| Lineryg LGY 2500 (2 x 1250) | 2740 | 2500 | 2620 | 2380 | 2500 | 2260 | 2380 | 2120 | 2260 | 2020 | 2120 | ■ |
| Lineryg LGY 3200 (2 x 1600) | 3480 | 3200 | 3340 | 3060 | 3200 | 2920 | 3060 | 2780 | 2920 | 2640 | 2780 | ■ |

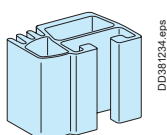
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example:

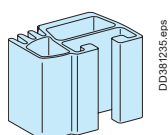
A Lineryg LGY channelled bar can be used for a 1650 A current with an IP ≤ 31 and an ambient temperature around the switchboard of 35 °C.



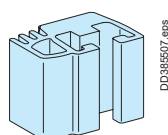
DD381233.eps



DD381234.eps



DD381235.eps



DD385507.eps



Section 630 A.
Cat. No. LVS04502.



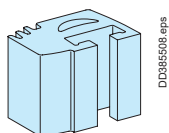
Section 800 A.
Cat. No. LVS04503.



Section 1000 A.
Cat. No. LVS04504.



Section 1250 A.
Cat. No. LVS04505.



DD385508.eps



Section 1600 A.
Cat. No. LVS04506.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing vertical busbars

Linery LGYE

Electrical characteristics

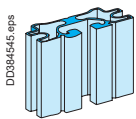
Permissible current and selection of Linery LGYE busbars

Up to 4000 A

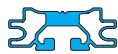
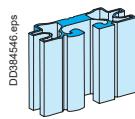
Linery LGYE section

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| Linery LGYE 630 | 680 | 580 | 650 | 550 | 630 | 530 | 590 | 500 | 550 | 470 | 520 | ■ |
| Linery LGYE 800 | 860 | 740 | 830 | 710 | 800 | 680 | 750 | 630 | 700 | 600 | 660 | ■ |
| Linery LGYE 1000 | 1080 | 920 | 1040 | 884 | 1000 | 850 | 940 | 790 | 880 | 750 | 830 | ■ |
| Linery LGYE 1250 | 1350 | 1150 | 1300 | 1100 | 1250 | 1050 | 1170 | 1000 | 1100 | 930 | 1020 | ■ |
| Linery LGYE 1600 | 1730 | 1580 | 1690 | 1530 | 1650 | 1480 | 1550 | 1380 | 1450 | 1300 | 1350 | ■ |
| Linery LGYE 2000 | 2200 | 1810 | 2100 | 1730 | 2000 | 1650 | 1900 | 1560 | 1810 | 1480 | 1720 | ■ |
| Linery LGYE 2500 | 2640 | 2230 | 2540 | 2160 | 2440 | 2100 | 2310 | 2000 | 2240 | 1930 | 2120 | ■ |
| Linery LGYE 3200 | 3400 | 3020 | 3300 | 2900 | 3200 | 2800 | 3040 | 2660 | 2890 | 2520 | 2750 | ■ |
| Linery LGYE 4000 | 3800 | 3510 | 3710 | 3430 | 3620 | 3350 | 3450 | 3180 | 3280 | 3020 | 3120 | ■ |

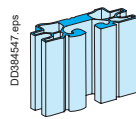
■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.



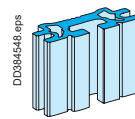
Section 630 A.
Cat. No. LVS04560.



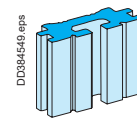
Section 800 A.
Cat. No. LVS04561.



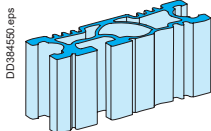
Section 1000 A.
Cat. No. LVS04562.



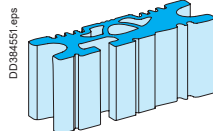
Section 1250 A.
Cat. No. LVS04563.



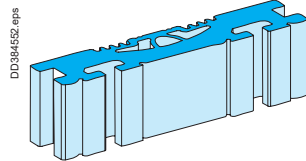
Section 1600 A.
Cat. No. LVS04564.



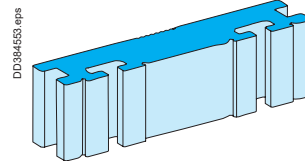
Section 2000 A.
Cat. No. LVS04565.



Section 2500 A.
Cat. No. LVS04566.



Section 3200 A.
Cat. No. LVS04567.



Section 4000 A.
Cat. No. LVS04568.

Designing vertical busbars

Linery BS

Electrical characteristics

Permissible current and selection of vertical busbar

The goal is to optimise busbar size according to the installation and operating criteria.

Up to 1600 A

Linery BS bars, 5 mm thick

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|--------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| 1 Linery BS bar, 60 x 5 | 890 | 840 | 850 | 790 | 800 | 750 | 760 | 700 | 710 | 650 | 660 | ■ |
| 1 Linery BS bar, 80 x 5 | 1130 | 1050 | 1080 | 990 | 1000 | 900 | 970 | 870 | 910 | 810 | 860 | ■ |
| 2 Linery BS bars, 60 x 5 | 1580 | 1420 | 1500 | 1350 | 1400 | 1250 | 1350 | 1180 | 1260 | 1090 | 1180 | ■ |
| 2 Linery BS bars, 80 x 5 | 2010 | 1820 | 1920 | 1720 | 1800 | 1600 | 1720 | 1510 | 1610 | 1390 | 1510 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Up to 3200 A

Linery BS bars, 10 mm thick

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| 1 Linery BS bar, 50 x 10 | 1330 | 1220 | 1260 | 1160 | 1200 | 1080 | 1130 | 1010 | 1060 | 940 | 990 | ■ |
| 1 Linery BS bar, 60 x 10 | 1550 | 1400 | 1470 | 1320 | 1400 | 1250 | 1320 | 1160 | 1240 | 1070 | 1160 | ■ |
| 1 Linery BS bar, 80 x 10 | 1990 | 1800 | 1890 | 1700 | 1800 | 1600 | 1700 | 1500 | 1600 | 1390 | 1500 | ■ |
| 1 Linery BS bar, 100 x 10 | 2370 | 2150 | 2260 | 2030 | 2150 | 1900 | 2030 | 1780 | 1900 | 1650 | 1780 | ■ |
| 2 Linery BS bars, 50 x 10 | 2270 | 2090 | 2160 | 1980 | 2050 | 1850 | 1930 | 1740 | 1810 | 1610 | 1690 | ■ |
| 2 Linery BS bars, 60 x 10 | 2550 | 2270 | 2420 | 2140 | 2300 | 2000 | 2170 | 1870 | 2030 | 1720 | 1900 | ■ |
| 2 Linery BS bars, 80 x 10 | 3110 | 2820 | 2970 | 2660 | 2820 | 2500 | 2660 | 2330 | 2500 | 2160 | 2330 | ■ |
| 2 x 1 Linery BS bar, 80 x 10 | 3540 | 3200 | 3370 | 3020 | 3200 | 2820 | 3020 | 2650 | 2840 | 2450 | 2650 | ■ |
| 2 Linery BS bars, 100 x 10 | 3650 | 3280 | 3490 | 3100 | 3300 | 2900 | 3130 | 2720 | 2950 | 2510 | 2750 | ■ |
| 2 Linery BS bars, 120 x 10 | 4160 | 3760 | 3960 | 3550 | 3760 | 3340 | 3560 | 3100 | 3340 | 2880 | 3120 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example

Two 80 x 10 mm bars can be used for a 2820 A current with an IP ≤ 31 and an ambient temperature of 35 °C around the switchboard.

Two 80 x 10 mm bars installed separately in two busbar compartments can be used for a 3200 A current with an IP ≤ 31 and an ambient temperature of 35 °C around the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing rear busbars

Linergy LGYE, Linergy BS

Electrical characteristics

Permissible current and selection of vertical busbar

The goal is to optimise busbar size according to the installation and operating criteria.

Up to 1600 A

Linergy LGY section

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| Linergy LGY 630 | 750 | 680 | 710 | 630 | 680 | 590 | 630 | 550 | 590 | 530 | 550 | ■ |
| Linergy LGY 800 | 920 | 840 | 880 | 800 | 840 | 760 | 800 | 720 | 760 | 680 | 720 | ■ |
| Linergy LGY 1000 | 1140 | 1040 | 1090 | 990 | 1040 | 950 | 990 | 900 | 950 | 850 | 900 | ■ |
| Linergy LGY 1250 | 1410 | 1290 | 1350 | 1230 | 1290 | 1170 | 1230 | 1100 | 1170 | 1050 | 1100 | ■ |
| Linergy LGY 1600 | 1800 | 1650 | 1720 | 1580 | 1650 | 1480 | 1580 | 1390 | 1480 | 1320 | 1390 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Up to 1600 A

Linergy BS bars, 5 mm thick

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|---------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| 1 Linergy BS bar, 60 x 5 | 890 | 840 | 850 | 790 | 800 | 750 | 760 | 700 | 710 | 650 | 660 | ■ |
| 1 Linergy BS bar, 80 x 5 | 1130 | 1050 | 1080 | 990 | 1000 | 900 | 970 | 870 | 910 | 810 | 860 | ■ |
| 2 Linergy BS bars, 60 x 5 | 1580 | 1420 | 1500 | 1350 | 1400 | 1250 | 1350 | 1180 | 1260 | 1090 | 1180 | ■ |
| 2 Linergy BS bars, 80 x 5 | 2010 | 1820 | 1920 | 1720 | 1800 | 1600 | 1720 | 1510 | 1610 | 1390 | 1510 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Up to 3200 A

Linergy BS bars, 10 mm thick

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|----------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| 1 Linergy BS bar, 50 x 10 | 1330 | 1220 | 1260 | 1160 | 1200 | 1080 | 1130 | 1010 | 1060 | 940 | 990 | ■ |
| 1 Linergy BS bar, 60 x 10 | 1550 | 1400 | 1470 | 1320 | 1400 | 1250 | 1320 | 1160 | 1240 | 1070 | 1160 | ■ |
| 1 Linergy BS bar, 80 x 10 | 1990 | 1800 | 1890 | 1700 | 1800 | 1600 | 1700 | 1500 | 1600 | 1390 | 1500 | ■ |
| 2 Linergy BS bars, 80 x 10 | 2270 | 2090 | 2160 | 1980 | 2050 | 1850 | 1930 | 1740 | 1810 | 1610 | 1690 | ■ |
| 2 Linergy BS bars, 60 x 10 | 2550 | 2270 | 2420 | 2140 | 2300 | 2000 | 2170 | 1870 | 2030 | 1720 | 1900 | ■ |
| 2 Linergy BS bars, 80 x 10 | 3110 | 2820 | 2970 | 2660 | 2820 | 2500 | 2660 | 2330 | 2500 | 2160 | 2330 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Prefabricated connections for ComPacT NS630b to NS1600

Electrical characteristics

ComPacT NS630b to NS1600

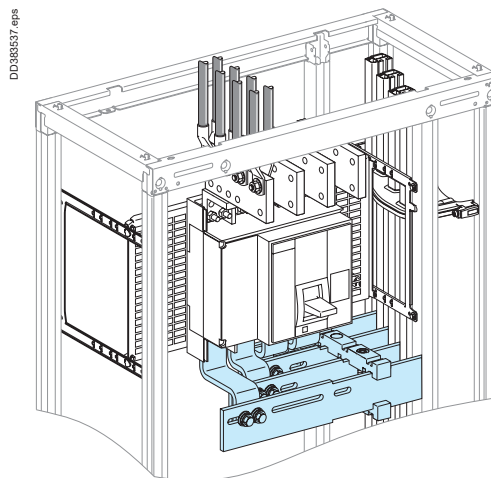
Vertical mounting

Front or rear connection

Top or bottom incoming

Vertical busbars on the left or right

Linery LGY busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical ComPacT NS630b/NS1600, fixed or withdrawable, and Linery LGY busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connection

| Device and cat. no. | | Permissible current (A) | | | | | | | | | | | | |
|---------------------|----------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b | 3P cat. no. LVS04485 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| | 4P cat. no. LVS04486 | | | | | | | | | | | | | |
| NS800 | 3P cat. no. LVS04485 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| | 4P cat. no. LVS04486 | | | | | | | | | | | | | |
| NS1000 | 3P cat. no. LVS04485 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| | 4P cat. no. LVS04486 | | | | | | | | | | | | | |
| NS1250 | 3P cat. no. LVS04485 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | 1200 | ■ |
| | 4P cat. no. LVS04486 | | | | | | | | | | | | | |
| NS1600 | 3P cat. no. LVS04487 | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | 1400 | ■ |
| | 4P cat. no. LVS04488 | | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Withdrawable

Prefabricated connection

| Device and cat. no. | | Permissible current (A) | | | | | | | | | | | | |
|---------------------|----------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b | 3P cat. no. LVS04477 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| | 4P cat. no. LVS04478 | | | | | | | | | | | | | |
| NS800 | 3P cat. no. LVS04477 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| | 4P cat. no. LVS04478 | | | | | | | | | | | | | |
| NS1000 | 3P cat. no. LVS04477 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| | 4P cat. no. LVS04478 | | | | | | | | | | | | | |
| NS1250 | 3P cat. no. LVS04477 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | 1200 | ■ |
| | 4P cat. no. LVS04478 | | | | | | | | | | | | | |
| NS1600 | 3P cat. no. LVS04491 | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | 1330 | ■ |
| | 4P cat. no. LVS04492 | | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example:

For a fixed ComPacT NS1600, 4P, where the ambient temperature around the switchboard is 35 °C and the IP > 31: the maximum permissible current for the prefabricated connection (LVS04488) is 1450 A.

Designing connections between a device and busbars

Prefabricated connections for MasterPact MTZ1 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16

MasterPact MTZ1 06 to 16

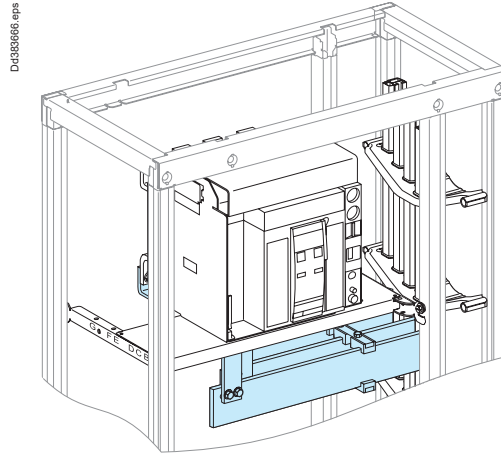
Vertical mounting

Front or rear connection

Top or bottom incoming

Vertical busbars on the left or right

Lineryy LGY busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical MasterPact MTZ1 06/16, fixed or drawout, and Lineryy LGY busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connection

| Device and cat. no. | | Permissible current (A) | | | | | | | | | | | |
|---------------------|----------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NT06 & MTZ1 | 3P cat. no. LVS04475 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| | 4P cat. no. LVS04476 | | | | | | | | | | | | |
| NT08 & MTZ1 | 3P cat. no. LVS04475 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| | 4P cat. no. LVS04476 | | | | | | | | | | | | |
| NT10 & MTZ1 | 3P cat. no. LVS04475 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| | 4P cat. no. LVS04476 | | | | | | | | | | | | |
| NT12 & MTZ1 | 3P cat. no. LVS04475 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | ■ |
| | 4P cat. no. LVS04476 | | | | | | | | | | | | |
| NT16 & MTZ1 | 3P cat. no. LVS04489 | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1370 | 1420 | ■ |
| | 4P cat. no. LVS04490 | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Withdrawable

Prefabricated connection

| Device and cat. no. | | Permissible current (A) | | | | | | | | | | | |
|---------------------|----------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NT06 & MTZ1 | 3P cat. no. LVS04477 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| | 4P cat. no. LVS04478 | | | | | | | | | | | | |
| NT08 & MTZ1 | 3P cat. no. LVS04477 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| | 4P cat. no. LVS04478 | | | | | | | | | | | | |
| NT10 & MTZ1 | 3P cat. no. LVS04477 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| | 4P cat. no. LVS04478 | | | | | | | | | | | | |
| NT12 & MTZ1 | 3P cat. no. LVS04477 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | ■ |
| | 4P cat. no. LVS04478 | | | | | | | | | | | | |
| NT16 & MTZ1 | 3P cat. no. LVS04491 | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | ■ |
| | 4P cat. no. LVS04492 | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Example:

For a drawout MasterPact MTZ1 16 , 4P, where the ambient temperature around the switchboard is 35°C and the IP > 31: the maximum permissible current for the prefabricated connection (LVS04492) is 1380 A.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Prefabricated connections for ComPacT NS630b to NS1000

Electrical characteristics

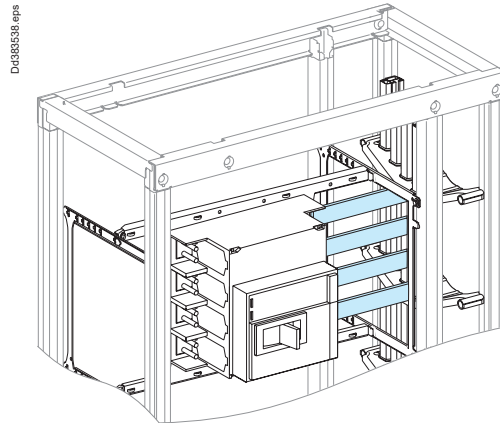
ComPacT NS630b à NS1000

Horizontal mounting

Front or rear connection

Left or right incoming

Linery LGY vertical busbars



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a horizontal ComPacT NS630b/NS1600, fixed or withdrawable, and Linery LGY busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connection

| Device and cat. no. | | Permissible current (A) | | | | | | | | | | | |
|---------------------|-----------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NS630b | 3P cat. no. LVS04473 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| | 4P cat. no. LVS04474 | | | | | | | | | | | | |
| NS800 | 3P cat. no. LVS04473 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| | 4P cat. no. LVS04474 | | | | | | | | | | | | |
| NS1000 | 3P cat. no. LVS04473 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| | 4P cat. no. LVS04474 | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Version : 14 - 15/12/2023
160E9200

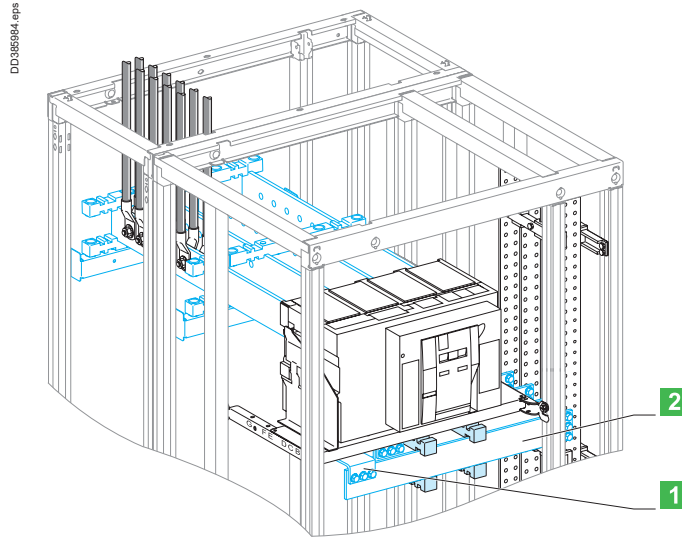
Designing connections between a device and busbars

Fixed MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16
 MasterPact MTZ2 08 to 16
 Fixed

Vertical busbars on the left or right
 Linergy LGY, BS busbars
 Connections drawings supplied by
 Schneider Electric



- 1** Liaison
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ2 08/16, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-------------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard (1) | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NW08 & MTZ2 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NW10 & MTZ2 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NW12 & MTZ2 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | |
| NW16 & MTZ2 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1600 | 1600 | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | |

Horizontal link

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-------------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NW08 & MTZ2 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NW10 & MTZ2 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NW12 & MTZ2 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | |
| NW16 & MTZ2 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1600 | 1600 | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) In the case of a door mounted at the rear of cubicle, add 10 °C.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

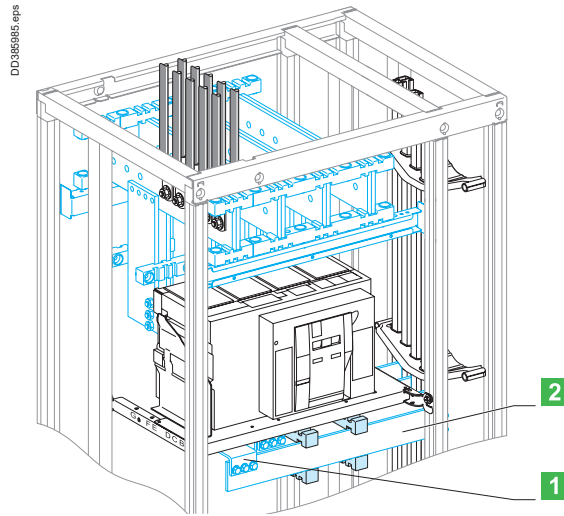
Designing connections between a device and busbars

Fixed MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32 MasterPact MTZ2 08 to 32 Fixed

Vertical busbars on the left or right
Linergy LGYE, LGY, BS busbars
Connections drawings supplied by
Schneider Electric



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ2 08/32, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|-------------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NW08 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| NW10 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| NW12 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | ■ |
| NW16 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1600 | 1600 | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1470 | ■ |
| NW20 & MTZ2 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1950 | ■ |
| NW25 & MTZ2 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2500 | 2500 | 2500 | 2500 | 2500 | 2460 | 2500 | 2380 | 2500 | 2300 | 2460 | 2460 | ■ |
| NW32 & MTZ2 | Size per phase | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | ■ |
| | I (A) | 3200 | 3000 | 3170 | 2910 | 3080 | 2820 | 3000 | 2730 | 2910 | 2630 | 2820 | 2820 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|-------------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NW08 & MTZ2 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| NW10 & MTZ2 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| NW12 & MTZ2 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | ■ |
| NW16 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1600 | 1600 | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1470 | ■ |
| NW20 & MTZ2 | Size per phase | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | ■ |
| | I (A) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1950 | ■ |
| NW25 & MTZ2 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2500 | 2500 | 2500 | 2500 | 2500 | 2460 | 2500 | 2380 | 2500 | 2300 | 2460 | 2460 | ■ |
| NW32 & MTZ2 | Size per phase | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | ■ |
| | I (A) | 3200 | 3000 | 3170 | 2910 | 3080 | 2820 | 3000 | 2730 | 2910 | 2630 | 2820 | 2820 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

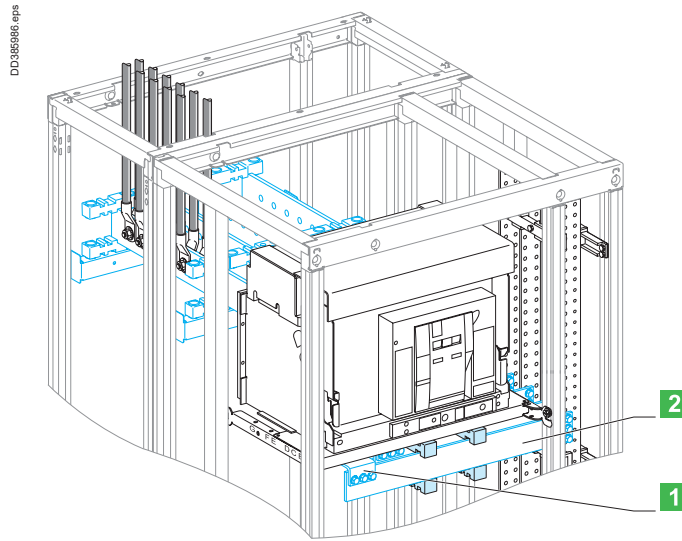
Designing connections between a device and busbars

Drawout MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16
MasterPact MTZ2 08 to 16
Drawout

Vertical busbars on the left or right
Linergy LGY, BS busbars
Connections drawings supplied by
Schneider Electric



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ2 08/16, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-------------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard (1) | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NW08 & MTZ2 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NW10 & MTZ2 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NW12 & MTZ2 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1230 | 1250 | 1200 | 1230 | 1160 | 1200 | |
| NW16 & MTZ2 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-------------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NW08 & MTZ2 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NW10 & MTZ2 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NW12 & MTZ2 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1230 | 1250 | 1200 | 1230 | 1160 | 1200 | |
| NW16 & MTZ2 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) In the case of a door mounted at the rear of cubicle, add 10 °C.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

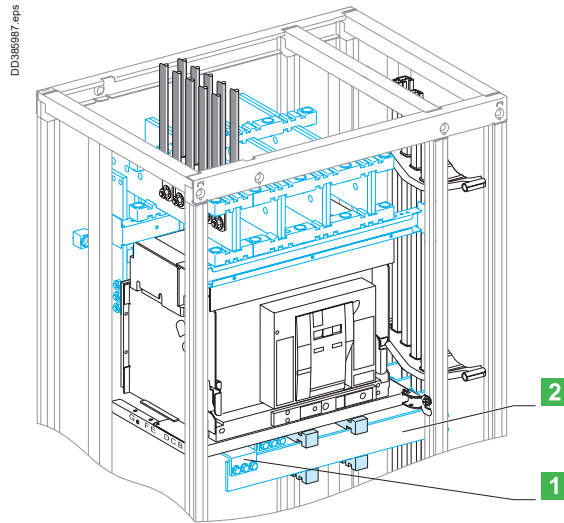
Designing connections between a device and busbars

Drawout MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32 MasterPact MTZ2 08 to 32 Drawout

Vertical busbars on the left or right
Linergy LGYE, LGY, BS busbars
Connections drawings supplied by
Schneider Electric



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ2 08/32, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-------------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NW08 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| NW10 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| NW12 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 |
| | I (A) | 1250 | 1250 | 1250 | 1210 | 1250 | 1180 | 1210 | 1140 | 1180 | 1100 | 1140 | 1140 |
| NW16 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 |
| | I (A) | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | 1330 |
| NW20 & MTZ2 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 |
| | I (A) | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1830 | 1900 | 1760 | 1830 | 1830 |
| NW25 & MTZ2 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 |
| | I (A) | 2470 | 2280 | 2410 | 2210 | 2350 | 2140 | 2280 | 2070 | 2210 | 2000 | 2140 | 2140 |
| NW32 & MTZ2 | Size per phase | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 |
| | I (A) | 2960 | 2730 | 2890 | 2630 | 2820 | 2530 | 2730 | 2450 | 2630 | 2370 | 2530 | 2530 |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-------------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NW08 & MTZ2 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| NW10 & MTZ2 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| NW12 & MTZ2 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 |
| | I (A) | 1250 | 1250 | 1250 | 1210 | 1250 | 1180 | 1210 | 1140 | 1180 | 1100 | 1140 | 1140 |
| NW16 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 |
| | I (A) | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | 1330 |
| NW20 & MTZ2 | Size per phase | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 |
| | I (A) | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1830 | 1900 | 1760 | 1830 | 1830 |
| NW25 & MTZ2 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 |
| | I (A) | 2470 | 2280 | 2410 | 2210 | 2350 | 2140 | 2280 | 2070 | 2210 | 2000 | 2140 | 2140 |
| NW32 & MTZ2 | Size per phase | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 | 2b 100x10 |
| | I (A) | 2960 | 2730 | 2890 | 2630 | 2820 | 2530 | 2730 | 2450 | 2630 | 2370 | 2530 | 2530 |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

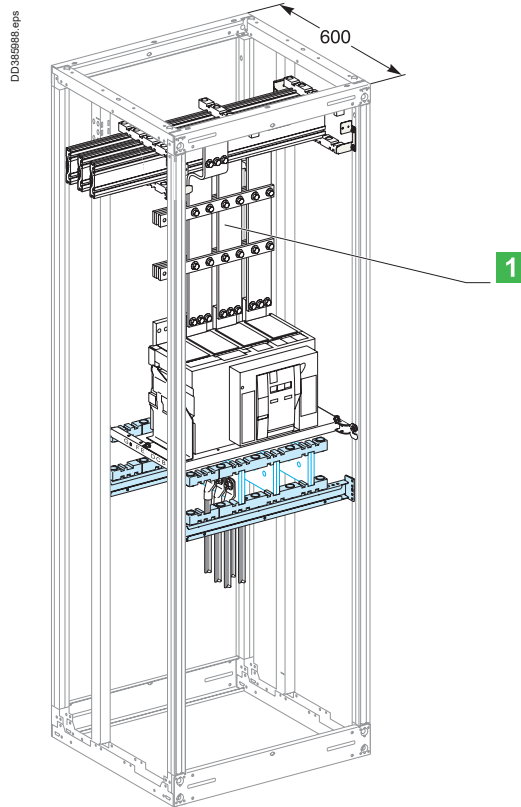
Dedicated cubicle

Fixed MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32
 MasterPact MTZ2 08 to 32
 Fixed

Dedicated cubicle
 Linergy LGYE, BS busbars
 Connections drawings supplied by
 Schneider Electric



Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-------------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NW08 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| NW10 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| NW12 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 |
| NW16 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 |
| | I (A) | 1600 | 1600 | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1470 |
| NW20 & MTZ2 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 |
| | I (A) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1950 |
| NW25 & MTZ2 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 |
| | I (A) | 2500 | 2500 | 2500 | 2500 | 2500 | 2460 | 2500 | 2380 | 2500 | 2300 | 2460 | 2460 |
| NW32 & MTZ2 | Size per phase | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 |
| | I (A) | 3200 | 3000 | 3170 | 2910 | 3080 | 2820 | 3000 | 2730 | 2910 | 2630 | 2820 | 2820 |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: contact Schneider Electric for 4000 A dedicated cubicle

Designing connections between a device and busbars

Dedicated cubicle

Drawout MasterPact 08-32

Electrical characteristics

MasterPact MTZ2 08 to 32

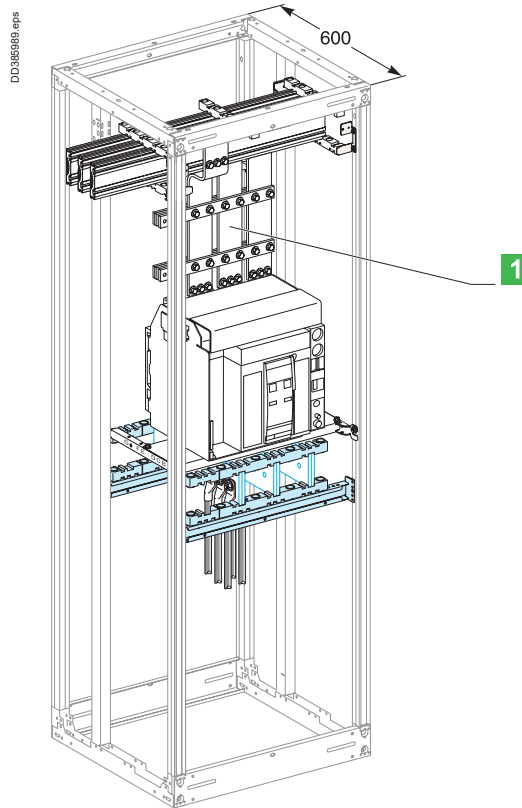
MasterPact MTZ2 08 to 32

Drawout

Dedicated cubicle

Linergy LGYE, BS busbars

Connections drawings supplied by Schneider Electric



Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|-------------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NW08 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NW10 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NW12 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1210 | 1250 | 1180 | 1210 | 1140 | 1180 | 1100 | 1140 | 1140 | |
| NW16 & MTZ2 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | 1330 | |
| NW20 & MTZ2 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1830 | 1900 | 1760 | 1830 | 1830 | |
| NW25 & MTZ2 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2470 | 2280 | 2410 | 2210 | 2350 | 2140 | 2280 | 2070 | 2210 | 2000 | 2140 | 2140 | |
| NW32 & MTZ2 | Size per phase | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | ■ |
| | I (A) | 2960 | 2730 | 2890 | 2630 | 2820 | 2530 | 2730 | 2450 | 2630 | 2370 | 2530 | 2530 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: contact Schneider Electric for 4000 A dedicated cubicle

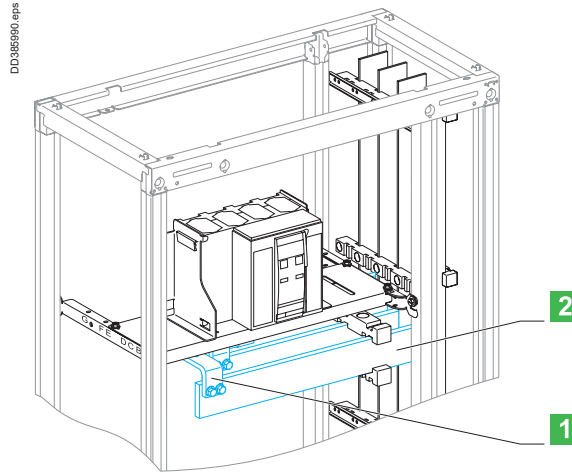
Designing connections between a device and busbars

Fixed MasterPact 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16
 MasterPact MTZ1 06 to 16
 Fixed

Vertical busbars on the left or right
 Linergy BS busbars
 Connections drawings supplied by
 Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-----------------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NT06 & MTZ1 | Size per phase | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NT08 & MTZ1 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NT10 & MTZ1 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NT12 & MTZ1 | Size per phase | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | |
| NT16 & MTZ1 (1) | Size per phase | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | ■ |
| | I (A) | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1370 | 1420 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-------------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NT06 & MTZ1 | Size per phase | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NT08 & MTZ1 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NT10 & MTZ1 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NT12 & MTZ1 | Size per phase | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | |
| NT16 & MTZ1 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1370 | 1420 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Fixed MasterPact 06-16

Electrical characteristics

Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|-----------------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NT06 & MTZ1 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NT08 & MTZ1 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NT10 & MTZ1 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NT12 & MTZ1 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1180 | 1230 | | |
| NT16 & MTZ1 (1) | Size per phase | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | ■ |
| | I (A) | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1370 | 1420 | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|-------------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NT06 & MTZ1 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NT08 & MTZ1 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NT10 & MTZ1 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | | |
| NT12 & MTZ1 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1210 | 1250 | 1160 | 1210 | 1180 | 1230 | | |
| NT16 & MTZ1 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1370 | 1420 | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with one bar, 50 x 10 mm.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

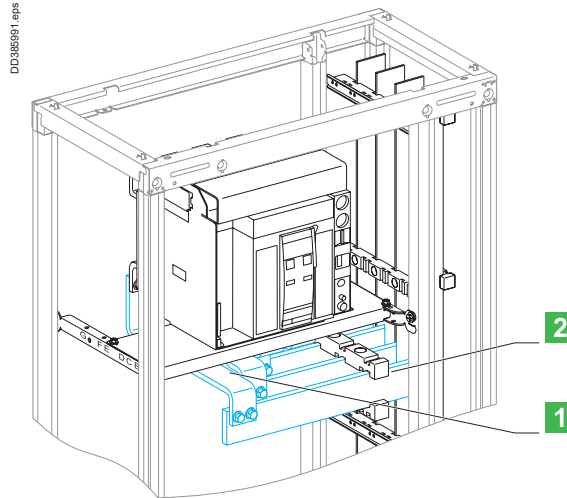
Designing connections between a device and busbars

Drawout MasterPact 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16
 MasterPact MTZ1 06 to 16
 Drawout

Vertical busbars on the left or right
 Linergy BS busbars
 Connections drawings supplied by
 Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, drawout MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-----------------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NT06 & MTZ1 | Size per phase | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NT08 & MTZ1 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NT10 & MTZ1 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | |
| NT12 & MTZ1 | Size per phase | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1230 | 1250 | 1180 | 1230 | 1130 | 1180 | |
| NT16 & MTZ1 (1) | Size per phase | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | ■ |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|-------------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NT06 & MTZ1 | Size per phase | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NT08 & MTZ1 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NT10 & MTZ1 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | |
| NT12 & MTZ1 | Size per phase | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1230 | 1250 | 1180 | 1230 | 1130 | 1180 | |
| NT16 & MTZ1 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Drawout MasterPact 06-16

Electrical characteristics

Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|----------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NT06 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NT08 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NT10 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | |
| NT12 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1210 | 1250 | 1160 | 1210 | 1110 | 1160 | |
| NT16 (1) | Size per phase | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 ■ |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NT06 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NT08 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NT10 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | |
| NT12 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1210 | 1250 | 1160 | 1210 | 1110 | 1160 | |
| NT16 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 ■ |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with one bar, 50 x 10 mm.

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Fixed ComPacT NS1600b to NS3200

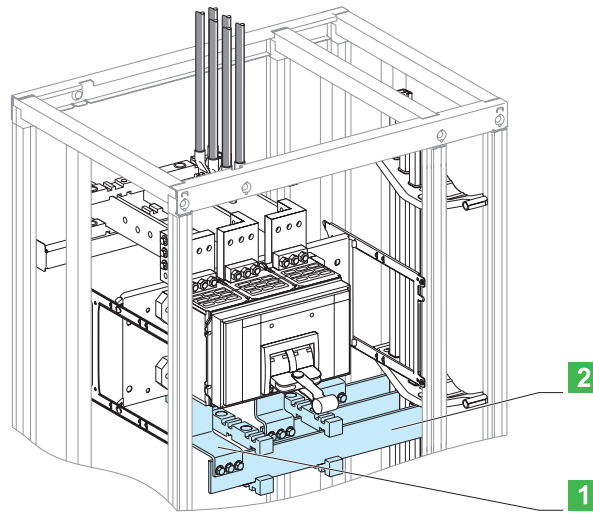
Electrical characteristics

ComPacT NS1600b/3200

Fixed

Vertical busbars on the left or right
 Linergy LGY busbars, BS
 Busbar drawings supplied by
 Schneider Electric

DD385982.eps



- 1** Connection.
- 2** Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed ComPacT NS1600b/3200, front or rear connection, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|---------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| NS1600b | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |
| NS2000 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1830 | 1900 | 1760 | 1830 | |
| NS2500 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2470 | 2280 | 2410 | 2210 | 2350 | 2140 | 2280 | 2070 | 2210 | 2000 | 2140 | |
| NS3200 | Size per phase | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | 3b 80 x 10 | ■ |
| | I (A) | 2860 | 2630 | 2790 | 2530 | 2720 | 2430 | 2630 | 2350 | 2530 | 2270 | 2430 | |

Horizontal link

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|---------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NS1600b | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |
| NS2000 | Size per phase | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | 2b 60 x 10 | ■ |
| | I (A) | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1830 | 1900 | 1760 | 1830 | |
| NS2500 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2470 | 2280 | 2410 | 2210 | 2350 | 2140 | 2280 | 2070 | 2210 | 2000 | 2140 | |
| NS3200 | Size per phase | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | ■ |
| | I (A) | 2860 | 2630 | 2790 | 2530 | 2720 | 2430 | 2630 | 2350 | 2530 | 2270 | 2430 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

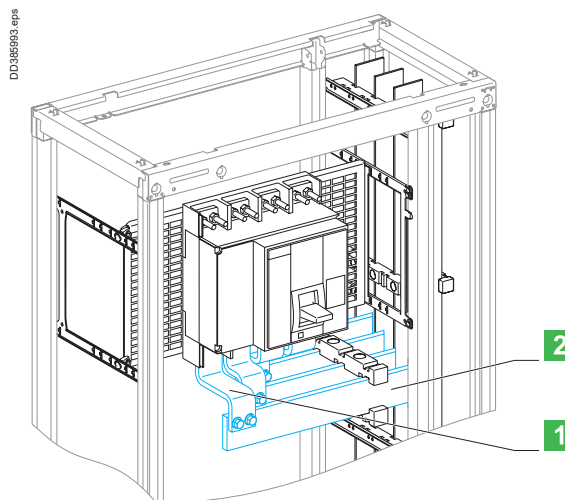
Designing connections between a device and busbars

Fixed ComPacT NS630b to NS1600

Electrical characteristics

ComPacT NS630b to NS1600 Fixed

Vertical busbars on the left or right
Linergy BS busbars
Busbar drawings supplied by
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|------------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NS630b | Size per phase | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | |
| NS1250 | Size per phase | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | |
| NS1600 (1) | Size per phase | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | ■ |
| | I (A) | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|--------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NS630b | Size per phase | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | |
| NS1250 | Size per phase | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | |
| NS1600 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Fixed ComPacT NS630b to NS1600

Electrical characteristics

Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|---------------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | 1000 | |
| NS1250 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1180 | 1230 | 1130 | 1180 | 1180 | |
| NS1600 (1) | Size per phase | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | ■ |
| | I (A) | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | 1400 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | 1000 | |
| NS1250 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1180 | 1230 | 1130 | 1180 | 1180 | |
| NS1600 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | 1400 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with one bar, 50 x 10 mm.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

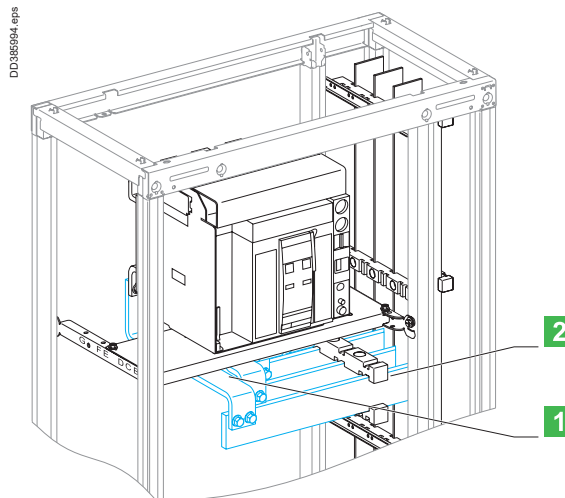
Withdrawable

ComPacT NS630b to NS1600

Electrical characteristics

ComPacT NS630b to NS1600 Withdrawable

Vertical busbars on the left or right
Linergy BS busbars
Busbar drawings supplied by
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, withdrawable ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|------------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NS630b | Size per phase | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | 1b 50 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | |
| NS1250 | Size per phase | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | 3b 50 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1230 | 1250 | 1180 | 1230 | 1130 | 1180 | |
| NS1600 (1) | Size per phase | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | 4b 50 x 5 | ■ |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|--------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NS630b | Size per phase | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | |
| NS1250 | Size per phase | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1230 | 1250 | 1180 | 1230 | 1130 | 1180 | |
| NS1600 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with two bars, 50 x 5 mm.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Withdrawable

ComPacT NS630b to NS1600

Electrical characteristics

Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|---------------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | 1000 | |
| NS1250 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1210 | 1250 | 1160 | 1210 | 1110 | 1160 | 1160 | |
| NS1600 (1) | Size per phase | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | 2b 50 x 10 | ■ |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | 1000 | |
| NS1250 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1210 | 1250 | 1160 | 1210 | 1110 | 1160 | 1160 | |
| NS1600 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

(1) Make the neutral connection with one bar, 50 x 10 mm.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

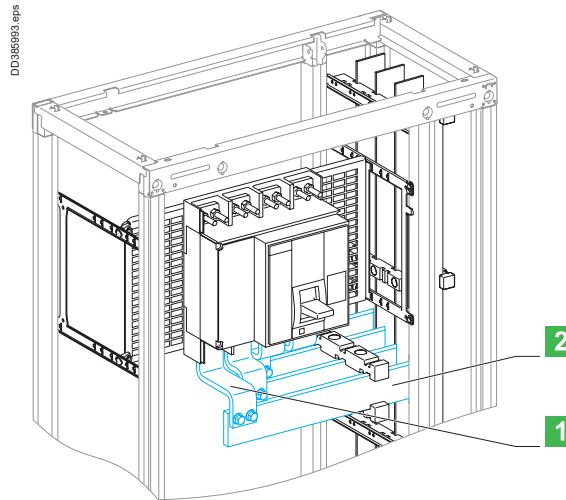
Designing connections between a device and busbars

Fixed ComPacT INS-INV630b to 2500

Electrical characteristics

ComPacT INS-INV630b to 2500 Fixed

Vertical busbars on the left or right
Linergy LGYE busbar, Linergy BS bars
Busbar drawings supplied by
Schneider Electric



- 1 Connection.
- 2 Horizontal link.

Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a vertical, fixed ComPacT, taking into account the ambient temperature around the switchboard and the IP value.

Connection

Flat bars, 5 mm thick

| Device | Permissible current (A) | Ambient temperature around the switchboard | | | | | | | | | | | | |
|-------------|-------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| INS-INV630b | Size per phase | 1b x 50 x 5 | 1b x 50 x 5 | 1b x 50 x 5 | 1b x 50 x 5 | 1b x 50 x 5 | 1b x 50 x 5 | 1b x 50 x 5 | 1b x 50 x 5 | 1b x 50 x 5 | 1b x 50 x 5 | 1b x 50 x 5 | 1b x 50 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| INS-INV800 | Size per phase | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| INS-INV1000 | Size per phase | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | 2b x 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | 1000 | |
| INS-INV1250 | Size per phase | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | 1200 | |
| INS-INV1600 | Size per phase | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | 3b x 50 x 5 | ■ |
| | I (A) | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | 1400 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 5 mm thick

| Device | Permissible current (A) | Ambient temperature around the switchboard | | | | | | | | | | | | |
|-------------|-------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| INS-INV630b | Size per phase | 1b x 60 x 5 | 1b x 60 x 5 | 1b x 60 x 5 | 1b x 60 x 5 | 1b x 60 x 5 | 1b x 60 x 5 | 1b x 60 x 5 | 1b x 60 x 5 | 1b x 60 x 5 | 1b x 60 x 5 | 1b x 60 x 5 | 1b x 60 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| INS-INV800 | Size per phase | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| INS-INV1000 | Size per phase | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | 1000 | |
| INS-INV1250 | Size per phase | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | 1b x 80 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | 1200 | |
| INS-INV1600 | Size per phase | 2b x 80 x 5 | 2b x 80 x 5 | 2b x 80 x 5 | 2b x 80 x 5 | 2b x 80 x 5 | 2b x 80 x 5 | 2b x 80 x 5 | 2b x 80 x 5 | 2b x 80 x 5 | 2b x 80 x 5 | 2b x 80 x 5 | 2b x 80 x 5 | ■ |
| | I (A) | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | 1400 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Fixed ComPacT INS-INV630b to 2500

Electrical characteristics

Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|-------------|----------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| INS-INV630b | Size per phase | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| INS-INV800 | Size per phase | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| INS-INV1000 | Size per phase | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | | |
| INS-INV1250 | Size per phase | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1180 | 1230 | 1130 | 1180 | | |
| INS-INV1600 | Size per phase | 2b x 50 x 10 | 2b x 50 x 10 | 2b x 50 x 10 | 2b x 50 x 10 | 2b x 50 x 10 | 2b x 50 x 10 | 2b x 50 x 10 | 2b x 50 x 10 | 2b x 50 x 10 | 2b x 50 x 10 | 2b x 50 x 10 | 2b x 50 x 10 | ■ |
| | I (A) | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | | |
| INS-INV2000 | Size per phase | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | ■ |
| | I (A) | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1830 | 1900 | 1760 | 1830 | | |
| INS-INV2500 | Size per phase | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | ■ |
| | I (A) | 2470 | 2280 | 2410 | 2210 | 2350 | 2140 | 2280 | 2070 | 2210 | 2000 | 2140 | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Horizontal link

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|-------------|----------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| INS-INV630b | Size per phase | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| INS-INV800 | Size per phase | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| INS-INV1000 | Size per phase | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | 1b x 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | | |
| INS-INV1250 | Size per phase | 1b x 60 x 10 | 1b x 60 x 10 | 1b x 60 x 10 | 1b x 60 x 10 | 1b x 60 x 10 | 1b x 60 x 10 | 1b x 60 x 10 | 1b x 60 x 10 | 1b x 60 x 10 | 1b x 60 x 10 | 1b x 60 x 10 | 1b x 60 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1180 | 1230 | 1130 | 1180 | | |
| INS-INV1600 | Size per phase | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | ■ |
| | I (A) | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | | |
| INS-INV2000 | Size per phase | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | 1b x 80 x 10 | ■ |
| | I (A) | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1830 | 1900 | 1760 | 1830 | | |
| INS-INV2500 | Size per phase | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | 2b x 80 x 10 | ■ |
| | I (A) | 2470 | 2280 | 2410 | 2210 | 2350 | 2140 | 2280 | 2070 | 2210 | 2000 | 2140 | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections between a device and busbars

Horizontal, fixed

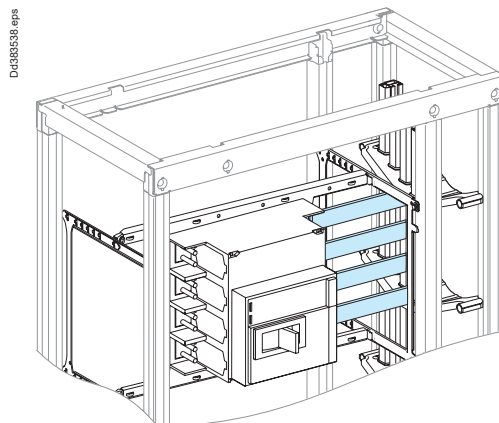
ComPacT NS630b to NS1000

Electrical characteristics

ComPacT NS630b to NS1000

Horizontal mounting

Vertical Linergy LGYE, LGY, BS busbars



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a horizontal, fixed ComPacT NS630b/NS1000, taking into account the ambient temperature around the switchboard and the IP value.

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| NS630b | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing connections ≤ 630 A

Device connections

Electrical characteristics

Flexible copper bars with an insulating sheath

Switchboards that comply with standard IEC 61439-1/2

It is imperative to use the values indicated below that have been validated for the installation of devices in PrismaSeT switchboards.

The parameters determining the size of flexible bars are:

- the environment in which the devices are installed:
 - position in the enclosure
 - dimensions of other conductors in the circuit
 - ambient temperature around the switchboard
- the characteristics of the connected devices:
 - device heat losses
 - the type of installation (horizontal or vertical)
 - the type of device (fixed or withdrawable).

Only the equipment manufacturer with in-depth knowledge on:

- the characteristics of the installed devices
- the configuration of the installation in the enclosure can provide the correct sizes of flexible bars for a given permissible current.

Insulated, flexible bars make for easy, fast and flexible implementation up to 630 A, but higher ratings require sizes that cancel these advantages.

For high I_{sc} values, it is advised to use rigid bars which require fewer supports.

Insulated flexible bars are better than cables, they offer:

- better insulation temperature withstand (125 °C for bars, 105 °C for cables) and a larger exchange surface for an equivalent size, i.e. a smaller size for a given current
- greater rigidity offering better electrodynamic characteristics for short-circuit currents
- no intermediate parts (lugs) for a direct connection between the device and the busbars therefore less temperature rise and less risk of error
- fast implementation of prefabricated connections already cut to length, formed and drilled.
- length limited to 500 mm.

Technical characteristics

- thickness of the insulation: variable depending on the bar size, 2 mm on average
- rated insulation level U_i = 1000 V
- impulse withstand voltage U_{imp} = 12 kV
- maximum withstand temperature of insulating material = 125 °C.

Connection

In all cubicles with IP ≤ 55 :

- the switchboard internal temperature is 60 °C
- the withstand temperature of the insulating material is 125 °C.

If the withstand temperature of the insulation is only 105 °C, use the next largest size of flexible bar given for standard insulated flexible bars (withstand temperature = 125 °C)

The bar sizes indicated below take into account the derating curves of devices.

Connection of devices to busbars

| Device | INS-INV125 | INS-INV160 | INS-INV250 | INS-INV320 INS-INV400 | INS-INV500 INS-INV630 | GS250 ISFT250 | GS400 ISFT400 | ISFT630 |
|--------|------------|------------|------------|--------------------------|--------------------------|------------------|------------------|---------|
| S (mm) | 20 x 2 | 20 x 2 | 20 x 3 | 32 x 5 | 32 x 6 | 24 x 5 | 32 x 5 | 32 x 8 |

Connection of distribution blocks to busbars

| Distribution block | Linerigy FM 200 A | Linerigy FC 3P | Linerigy FC 4P |
|--------------------|-------------------|----------------|----------------|
| S (mm) | 20 x 3 | 32 x 8 | 32 x 8 |

Connection of disconnectors, Linerigy TB, connections, busbars to busbars

| I max. (60 °C) | 200 A | 250 A | 400 A | 400 A | 480 A | 520 A | 580 A | 660 A |
|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| S (mm) | 20 x 2 | 20 x 3 | 24 x 5 | 24 x 5 | 24 x 6 | 32 x 5 | 32 x 6 | 32 x 8 |

Note: The values indicated above have been validated for PrismaSeT P switchboards.

Designing connections ≤ 630 A

ComPacT circuit breakers NSX100 to NSX630

Insulated flexible copper bars ⁽¹⁾

Electrical characteristics

ComPacT NSX100 to NSX630

Insulated flexible copper bars (withstand temperature = 125 °C)

We recommend insulated flexible copper bars for ComPacT NSX connections from 100 to 630 A

| Devices | | Permissible current (A) | | | | | |
|---|---------------------|--|--------|--------|--------|--------|--------|
| | | Ambient temperature around the switchboard | | | | | |
| | | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C | 50 °C |
| IP ≤ 31 | | | | | | | |
| NSX100 TMD-TMG | Size per phase | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 |
| | I _{nc} (A) | 100 | 100 | 100 | 97.5 | 95 | 92.5 |
| NSX125 TMD-TMG | Size per phase | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 |
| | I _{nc} (A) | 125 | 125 | 125 | 122 | 119 | 115 |
| NSX160 (2) TMD-TMG | Size per phase | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 |
| | I _{nc} (A) | 160 | 160 | 160 | 156 | 152 | 148 |
| NSX250 (2) TMD-TMG | Size per phase | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 |
| | I _{nc} (A) | 250 | 244 | 238 | 231 | 225 | 219 |
| NSX100 STR | Size per phase | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 |
| | I _{nc} (A) | 100 | 100 | 100 | 100 | 100 | 100 |
| NSX160 STR | Size per phase | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 |
| | I _{nc} (A) | 160 | 160 | 160 | 160 | 160 | 160 |
| NSX250 (3) STR | Size per phase | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 |
| | I _{nc} (A) | 250 | 245 | 237 | 230 | 225 | 220 |
| NSX400B/F/N/H/S/L fixed | Size per phase | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 |
| | I _{nc} (A) | 400 | 400 | 400 | 390 | 380 | 370 |
| NSX400B/F/N/H/S/L with Vigi NSX400B/F/N/H/S/L ELCB | Size per phase | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 |
| | I _{nc} (A) | 400 | 390 | 380 | 370 | 360 | 350 |
| NSX400B/F/N/H/S/L withdrawable | Size per phase | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 |
| | I _{nc} (A) | 400 | 390 | 380 | 370 | 360 | 350 |
| NSX630B/F/N/H/S/L fixed | Size per phase | 32 x 6 | 32 x 6 | 32 x 6 | 32 x 6 | 32 x 6 | 32 x 6 |
| | I _{nc} (A) | 630 | 615 | 600 | 585 | 570 | 550 |
| NSX630B/F/N/H/S/L with Vigi or withdrawable NSX630B/F/N/H/S/L ELCB | Size per phase | 32 x 8 | 32 x 8 | 32 x 8 | 32 x 8 | 32 x 8 | 32 x 8 |
| | I _{nc} (A) | 570 | 550 | 535 | 520 | 505 | 490 |
| IP > 31 | | | | | | | |
| NSX100 TMD-TMG | Size per phase | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 |
| | I _{nc} (A) | 100 | 100 | 100 | 97.5 | 95 | 92.5 |
| NSX125 TMD-TMG | Size per phase | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 |
| | I _{nc} (A) | 125 | 125 | 125 | 122 | 119 | 115 |
| NSX160 (2) TMD-TMG | Size per phase | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 |
| | I _{nc} (A) | 160 | 160 | 160 | 156 | 152 | 148 |
| NSX250 (2) TMD-TMG | Size per phase | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 |
| | I _{nc} (A) | 238 | 231 | 225 | 219 | 213 | 207 |
| NSX100 STR | Size per phase | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 | 20 x 2 |
| | I _{nc} (A) | 100 | 100 | 100 | 100 | 100 | 100 |
| NSX160 STR | Size per phase | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 |
| | I _{nc} (A) | 160 | 160 | 160 | 160 | 160 | 160 |
| NSX250 (3) STR | Size per phase | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 | 20 x 3 |
| | I _{nc} (A) | 237 | 230 | 225 | 220 | 215 | 210 |
| NSX400B/F/N/H/S/L fixed | Size per phase | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 |
| | I _{nc} (A) | 400 | 400 | 400 | 390 | 380 | 370 |
| Vigi NSX400B/F/N/H/S/L NSX400B/F/N/H/S/L Vigi (ELCB) | Size per phase | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 |
| | I _{nc} (A) | 400 | 390 | 380 | 370 | 360 | 350 |
| NSX400B/F/N/H/S/L withdrawable | Size per phase | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 | 32 x 5 |
| | I _{nc} (A) | 400 | 390 | 380 | 370 | 360 | 350 |
| NSX630B/F/N/H/S/L fixed | Size per phase | 32 x 6 | 32 x 6 | 32 x 6 | 32 x 6 | 32 x 6 | 32 x 6 |
| | I _{nc} (A) | 600 | 585 | 570 | 550 | 535 | 520 |
| NSX630B/F/N/H/S/L withdrawable Vigi NSX630B/F/N/H/S/L NSX630B/F/N/H/S/L Vigi (ELCB) | Size per phase | 32 x 8 | 32 x 8 | 32 x 8 | 32 x 8 | 32 x 8 | 32 x 8 |
| | I _{nc} (A) | 535 | 520 | 505 | 490 | 475 | 420 |

Note: the values indicated above have been validated for PrismaSeT P switchboards.

(1) We recommend insulated flexible copper bars instead of copper cables for all NSX100 to NSX630 connection.

(2) For a withdrawable NSX160/250 equipped with a Vigi or NSX Vigi 160/250 (ELCB) or an insulation-monitoring module, multiply the I_n values by 0.9 .

(3) For a withdrawable NSX250 equipped with Vigi or NSX Vigi 250 (ELCB) or an insulation-monitoring module, multiply the I_n values by 0.86.

To connect a ComPacT NSX250 and NSX Vigi 250 ELCB to a Linergy BW busbars, use a 24 x 5 flexible bar cat. no. **LVS04746**.

Designing connections ≤ 630 A

ComPacT circuit breakers NSX100 to NSX250

Copper cable

Electrical characteristics

Cables: practical guidelines

This section doesn't concern customer's loads connection (see IEC 61439-1, IEC 60364).

Schneider Electric provides cabling recommendations according to the rating of the circuit breaker.

The size of cables must be selected according to:

- the level of current
- the ambient temperature around the conductors
- the degree of protection for the switchboard.

The tables below take into account the installation conditions for each type of device (permissible temperature at connection terminals, etc.).

They follow the temperature derating values for installed devices in all cubicles with cover panels rated IP ≤ 55.

- switchboard internal temperature 60 °C
- connections using copper cables.

The withstand temperature of insulating material of cable = 105°C.

The withstand voltage of insulating material of cable ≥ 1000 V.

ComPacT NSX100 to NSX250

Copper cable, withstand temperature = 105 °C

| Devices | | Permissible current (A) | | | | | |
|-----------------------|---------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|
| | | Ambient temperature around the switchboard | | | | | |
| | | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C | 50 °C |
| IP ≤ 31 | | | | | | | |
| NSX100 TMD-TMG | Size per phase | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² |
| | I _{nc} (A) | 100 | 100 | 100 | 97.5 | 95 | 92.5 |
| NSX125 TMD-TMG | Size per phase | 70 mm ² | 70 mm ² | 70 mm ² | 70 mm ² | 70 mm ² | 70 mm ² |
| | I _{nc} (A) | 125 | 125 | 125 | 122 | 119 | 115 |
| NSX160 (1) TMD-TMG | Size per phase | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² |
| | I _{nc} (A) | 160 | 160 | 160 | 156 | 152 | 148 |
| NSX250 (1) TMD-TMG | Size per phase | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² |
| | I _{nc} (A) | 250 | 244 | 238 | 231 | 225 | 219 |
| NSX100 STR | Size per phase | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² |
| | I _{nc} (A) | 100 | 100 | 100 | 100 | 100 | 100 |
| NSX160 STR | Size per phase | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² |
| | I _{nc} (A) | 160 | 160 | 160 | 160 | 160 | 160 |
| NSX250 (2) STR | Size per phase | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² |
| | I _{nc} (A) | 250 | 245 | 237 | 230 | 225 | 220 |
| IP > 31 | | | | | | | |
| NSX100 TMD-TMG | Size per phase | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² |
| | I _{nc} (A) | 100 | 100 | 100 | 97.5 | 95 | 92.5 |
| NSX125 TMD-TMG | Size per phase | 70 mm ² | 70 mm ² | 70 mm ² | 70 mm ² | 70 mm ² | 70 mm ² |
| | I _{nc} (A) | 125 | 125 | 125 | 122 | 119 | 115 |
| NSX160 (1) TMD-TMG | Size per phase | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² |
| | I _{nc} (A) | 160 | 160 | 160 | 156 | 152 | 148 |
| NSX250 (1) TMD-TMG | Size per phase | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² |
| | I _{nc} (A) | 237 | 230 | 225 | 220 | 215 | 210 |
| NSX100 STR | Size per phase | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² | 50 mm ² |
| | I _{nc} (A) | 100 | 100 | 100 | 100 | 100 | 100 |
| NSX160 STR | Size per phase | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² | 95 mm ² |
| | I _{nc} (A) | 160 | 160 | 160 | 160 | 160 | 160 |
| NSX250 (2) STR | Size per phase | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² | 120 mm ² |
| | I _{nc} (A) | 237 | 230 | 225 | 220 | 215 | 210 |

(1) For a withdrawable NSX160/250 equipped with a Vigi or NSX Vigi 160/250 (ELCB) or an insulation-monitoring module, multiply the I_n values by 0.9.

(2) For a withdrawable NSX250 equipped with a Vigi or NSX Vigi 250 (ELCB) or an insulation-monitoring module, multiply the I_n values by 0.86.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Note: Schneider Electric recommends connecting ComPacT NSX400/630 circuit breakers with insulated flexible bars or rigid bars > page I-41.

Designing connections ≤ 630 A

ComPacT circuit breakers NSXm up to 160

Copper cable

Electrical characteristics

ComPacT NSXm up to 160

Copper cable, withstand temperature = 105°C

| Devices | | Permissible current (A) | | | | | |
|--------------------------------|-----------------------------------|--|-------|-------|-------|-------|-------|
| | | Ambient temperature around the switchboard | | | | | |
| | | 25 °C | 30 °C | 35 °C | 40 °C | 45 °C | 50 °C |
| IP \leq 31 | | | | | | | |
| NSXm100 | Size per phase (mm ²) | 50 | 50 | 50 | 50 | 50 | 50 |
| | I _{nc} (A) | 100 | 100 | 96 | 94 | 90 | 87 |
| NSXm125 | Size per phase (mm ²) | 70 | 70 | 70 | 70 | 70 | 70 |
| | I _{nc} (A) | 125 | 125 | 120 | 117 | 113 | 109 |
| NSXm160 | Size per phase (mm ²) | 95 | 95 | 95 | 95 | 95 | 95 |
| | I _{nc} (A) | 160 | 155 | 149 | 144 | 139 | 133 |
| NSXm 100 ELCB | Size per phase (mm ²) | 50 | 50 | 50 | 50 | 50 | 50 |
| | I _{nc} (A) | 100 | 100 | 100 | 100 | 96 | 93 |
| NSXm 160 ELCB | Size per phase (mm ²) | 95 | 95 | 95 | 95 | 95 | 95 |
| | I _{nc} (A) | 160 | 155 | 150 | 145 | 140 | 135 |
| IP $>$ 31 | | | | | | | |
| NSXm100 | Size per phase (mm ²) | 50 | 50 | 50 | 50 | 50 | 50 |
| | I _{nc} (A) | 100 | 100 | 96 | 94 | 90 | 87 |
| NSXm125 | Size per phase (mm ²) | 70 | 70 | 70 | 70 | 70 | 70 |
| | I _{nc} (A) | 125 | 120 | 117 | 113 | 109 | 104 |
| NSXm160 | Size per phase (mm ²) | 95 | 95 | 95 | 95 | 95 | 95 |
| | I _{nc} (A) | 160 | 155 | 149 | 144 | 139 | 133 |
| NSXm 100 ELCB | Size per phase (mm ²) | 50 | 50 | 50 | 50 | 50 | 50 |
| | I _{nc} (A) | 100 | 100 | 100 | 100 | 96 | 93 |
| NSXm 160 ELCB | Size per phase (mm ²) | 95 | 95 | 95 | 95 | 95 | 95 |
| | I _{nc} (A) | 160 | 155 | 150 | 145 | 140 | 135 |

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing cable connections

Tubular lugs

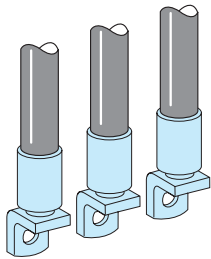
Electrical characteristics

Tubular lugs for incoming connection blocks

Maximum size of lugs for connection to the different incoming connection blocks.

| | Standard Cu lugs | Narrow Cu lugs | Narrow bimetal lugs |
|---|---------------------|---------------------|---------------------|
| Incoming connection block for ComPacT NSX-INS-INV250 supplied via the top or the bottom, cat. no. LVS04066 and LVS04067 | 150 mm ² | 240 mm ² | 185 mm ² |
| In-duct incoming connection block for ComPacT NSX630 supplied via the top or the bottom cat. no. LVS04076 | 240 mm ² | 300 mm ² | 300 mm ² |

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Narrow bimetal lugs

Cat. no. selection

| Cat. no. | Cable size (mm ²) | Quantity |
|-------------------------------------|-------------------------------|----------|
| Lugs for aluminium cable (1) | | |
| 29504 | 150 | 3 |
| 29505 | 150 | 4 |
| 29506 | 185 | 3 |
| 29507 | 185 | 4 |
| 32504 | 240 | 3 |
| 32505 | 240 | 4 |
| 32506 | 300 | 3 |
| 32507 | 300 | 4 |

Customer connection of devices ≥ 630 A

Maximum size and number of cables for connection to terminal extension bars (according to busbar drawing supplied) for customer connection of ComPacT NSX and MasterPact MTZ1 /MTZ2 and NT devices.

| | Cable size (mm ²) | Quantity |
|----------------------------------|-------------------------------|----------|
| Size and number of cables | | |
| Copper lugs | 300 | 12 |
| Bimetal lugs | 240 | 12 |

(1) Supplied with 2 or 3 interphase barriers.

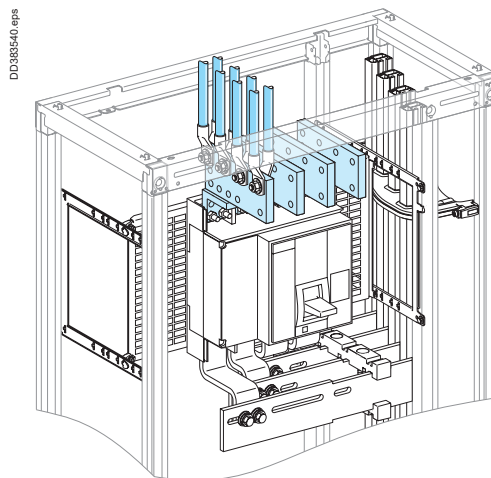
Designing customer connections

Prefabricated connections for ComPacT NS630b to NS1600

Electrical characteristics

ComPacT NS630b to NS1600

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical ComPacT NS630b/NS1600, fixed or withdrawable, and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connections

| Device and cat. no. | Permissible current (A) | | | | | | | | | | | | |
|-------------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b 3P cat. no. 33642 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| 4P cat. no. 33643 | | | | | | | | | | | | | |
| NS800 3P cat. no. 33642 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| 4P cat. no. 33643 | | | | | | | | | | | | | |
| NS1000 3P cat. no. 33642 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| 4P cat. no. 33643 | | | | | | | | | | | | | |
| NS1250 3P réf. 33642 + 33644 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | 1200 | ■ |
| 4P réf. 33643 + 33645 | | | | | | | | | | | | | |
| NS1600 3P réf. 33642 + 33644 | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | 1400 | ■ |
| 4P réf. 33643 + 33645 | | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Withdrawable

Prefabricated connections

| Device and cat. no. | Permissible current (A) | | | | | | | | | | | | |
|-------------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b 3P cat. no. 33642 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| 4P cat. no. 33643 | | | | | | | | | | | | | |
| NS800 3P cat. no. 33642 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| 4P cat. no. 33643 | | | | | | | | | | | | | |
| NS1000 3P cat. no. 33642 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| 4P cat. no. 33643 | | | | | | | | | | | | | |
| NS1250 3P réf. 33642 + 33644 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | 1200 | ■ |
| 4P réf. 33643 + 33645 | | | | | | | | | | | | | |
| NS1600 3P réf. 33642 + 33644 | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | 1330 | ■ |
| 4P réf. 33643 + 33645 | | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

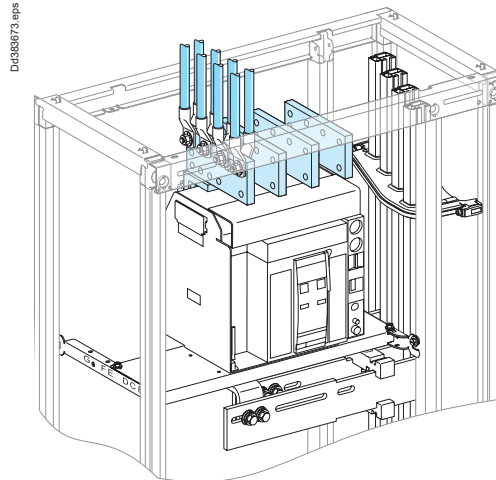
Designing customer connections

Prefabricated connections for MasterPact 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a vertical MasterPact MTZ1 06/16, fixed or drawout, and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

Fixed

Prefabricated connections

| Device and cat. no. | | Permissible current (A) | | | | | | | | | | | | |
|---------------------|------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NT06 | 3P cat. no. 33642 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| | 4P cat. no. 33643 | | | | | | | | | | | | | |
| NT08 | 3P cat. no. 33642 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| | 4P cat. no. 33643 | | | | | | | | | | | | | |
| NT10 | 3P cat. no. 33642 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| | 4P cat. no. 33643 | | | | | | | | | | | | | |
| NT12 | 3P réf. 33642 + 33644 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | ■ | |
| | 4P réf. 33643 + 33645 | | | | | | | | | | | | | |
| NT16 | 3P réf. 33642 + 33644 | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1370 | 1420 | ■ | |
| | 4P réf. 33643 + 33645 | | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Withdrawable

Prefabricated connections

| Device and cat. no. | | Permissible current (A) | | | | | | | | | | | | |
|---------------------|------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NT06 | 3P cat. no. 33642 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| | 4P cat. no. 33643 | | | | | | | | | | | | | |
| NT08 | 3P cat. no. 33642 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| | 4P cat. no. 33643 | | | | | | | | | | | | | |
| NT10 | 3P cat. no. 33642 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| | 4P cat. no. 33643 | | | | | | | | | | | | | |
| NT12 | 3P réf. 33642 + 33644 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | ■ | |
| | 4P réf. 33643 + 33645 | | | | | | | | | | | | | |
| NT16 | 3P réf. 33642 + 33644 | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | ■ | |
| | 4P réf. 33643 + 33645 | | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

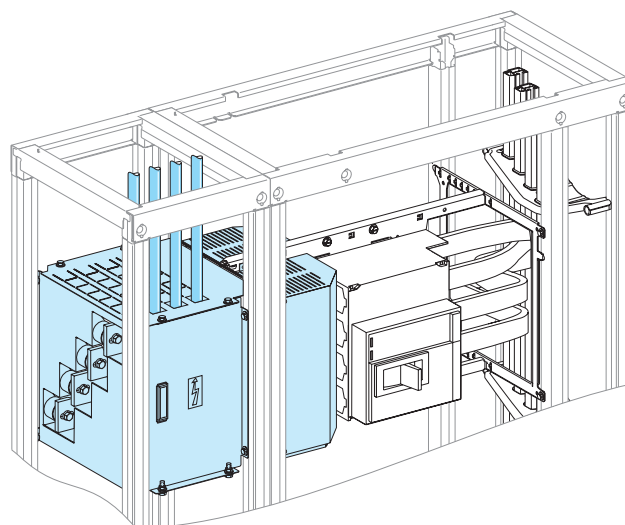
Connection transfer assembly for fixed ComPacT NS630b to NS1000

Electrical characteristics

ComPacT NS630b to NS1000, fixed

- Horizontal mounting
- Front or rear connection
- Installation on the left or right

D16383541 eps



Using the data below, it is possible to determine the permissible current for a prefabricated connection between a horizontal, fixed ComPacT NS630b/NS1000 and Linergy busbars depending on the ambient temperature around the switchboard and the IP value.

Connection transfer assemblies

| Device and cat. no. | | Permissible current (A) | | | | | | | | | | | |
|---------------------|-----------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NS630b | 3P cat. no. LVS04483 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| | 4P cat. no. LVS04484 | | | | | | | | | | | | |
| NS800 | 3P cat. no. LVS04483 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| | 4P cat. no. LVS04484 | | | | | | | | | | | | |
| NS1000 | 3P cat. no. LVS04483 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | ■ |
| | 4P cat. no. LVS04484 | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

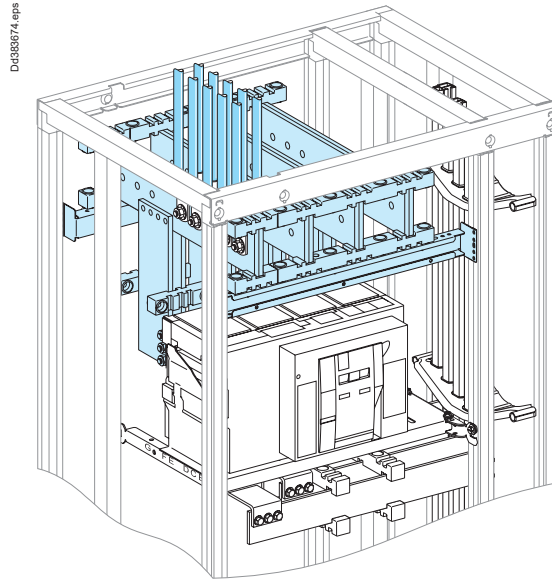
Designing customer connections

Fixed MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16 Fixed

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connection for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied. For connection cable cross-sections and quantities > [page I-44](#).

Customer connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|--------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NW08 | Size per phase | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| NW10 | Size per phase | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| NW12 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 |
| NW16 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 |
| | I (A) | 1600 | 1600 | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1470 |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

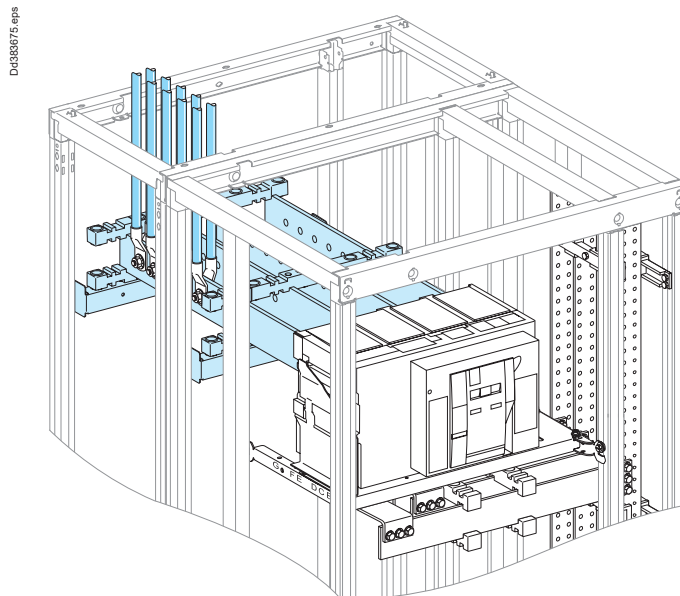
Designing customer connections

Fixed MasterPact 08-40

Electrical characteristics

MasterPact MTZ2 08 to 40 Fixed

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric



Customer connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NW08 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NW10 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NW12 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | |
| NW16 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1600 | 1600 | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | | |
| NW20 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | | |
| NW25 | Size per phase | 2b 100 x 10 | 2b 100 x 10 | 2b 100 x 10 | 2b 100 x 10 | 2b 100 x 10 | 2b 100 x 10 | 2b 100 x 10 | 2b 100 x 10 | 2b 100 x 10 | 2b 100 x 10 | 2b 100 x 10 | 2b 100 x 10 | ■ |
| | I (A) | 2500 | 2500 | 2500 | 2500 | 2500 | 2460 | 2500 | 2380 | 2500 | 2300 | 2460 | | |
| NW32 | Size per phase | 2b 120 x 10 | 2b 120 x 10 | 2b 120 x 10 | 2b 120 x 10 | 2b 120 x 10 | 2b 120 x 10 | 2b 120 x 10 | 2b 120 x 10 | 2b 120 x 10 | 2b 120 x 10 | 2b 120 x 10 | 2b 120 x 10 | ■ |
| | I (A) | 3200 | 3000 | 3170 | 2910 | 3080 | 2820 | 3000 | 2730 | 2910 | 2630 | 2820 | | |
| NW40 | Size per phase | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | ■ |
| | I (A) (1) | | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

| Device | NW08 | NW10 | NW12 | NW16 | NW20 | NW25 | NW32 | NW40 |
|------------------------|------|------|------|------|------|------|------|------|
| Derating coefficient K | 1 | 1 | 1 | 0,98 | 0,98 | 0,97 | 0,97 | (2) |

(1) For NW40 IP >31, performances realized with forced ventilation.

(2) Contact Schneider Electric for 4000 A dedicated cubicle.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

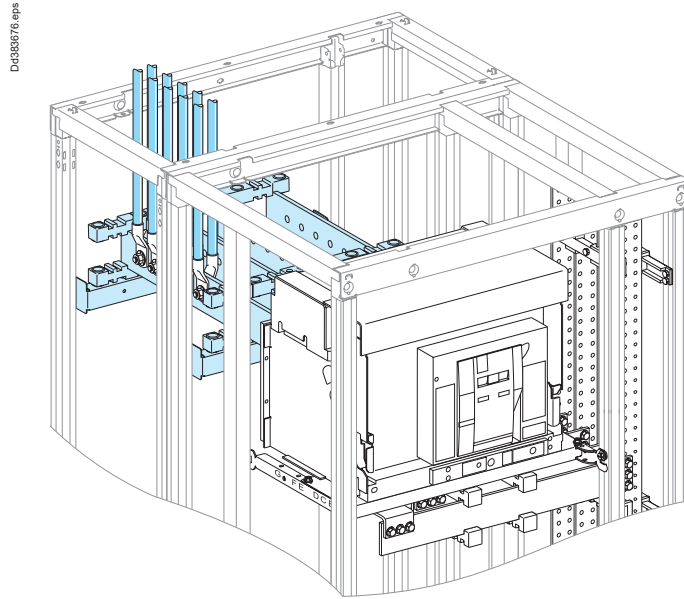
Designing customer connections

Drawout MasterPact 08-16

Electrical characteristics

MasterPact MTZ2 08 to 16 Drawout

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, drawout MasterPact MTZ1 08/16, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied. For connection cable cross-sections and quantities > [page I-44](#).

Customer connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|--------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NW08 | Size per phase | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| NW10 | Size per phase | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 | 2b 60 x 5 |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| NW12 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1230 | 1250 | 1200 | 1230 | 1160 | 1200 | 1200 |
| NW16 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 |
| | I (A) | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | 1330 |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

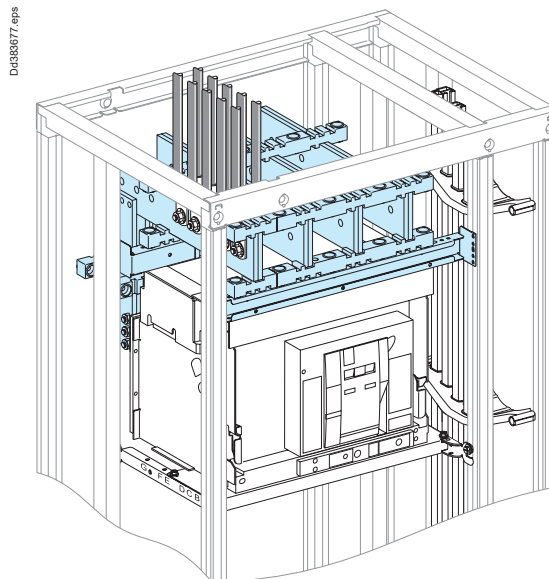
Designing customer connections

MasterPact 08-40 withdrawable

Electrical characteristics

MasterPact MTZ2 08 to 40 Drawout

- Vertical mounting
- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric



Customer connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NW08 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NW10 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NW12 | Size per phase | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | 1b 60 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1210 | 1250 | 1180 | 1210 | 1140 | 1180 | 1100 | 1140 | | |
| NW16 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | | |
| NW20 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1830 | 1900 | 1760 | 1830 | | |
| NW25 | Size per phase | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | ■ |
| | I (A) | 2470 | 2280 | 2410 | 2210 | 2350 | 2140 | 2280 | 2070 | 2210 | 2000 | 2140 | | |
| NW32 | Size per phase | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | ■ |
| | I (A) | 2960 | 2730 | 2890 | 2630 | 2820 | 2530 | 2730 | 2450 | 2630 | 2370 | 2530 | | |
| NW40 | Size per phase | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | ■ |
| | I (A) (1) | | | | | | | | | | | | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

| Device | NW08 | NW10 | NW12 | NW16 | NW20 | NW25 | NW32 |
|------------------------|------|------|------|------|------|------|------|
| Derating coefficient K | 1 | 1 | 1 | 0,98 | 0,98 | 0,97 | 0,97 |

(1) For NW40 IP >31, performances realized with forced ventilation.

(2) Contact Schneider Electric for 4000 A dedicated cubicle.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

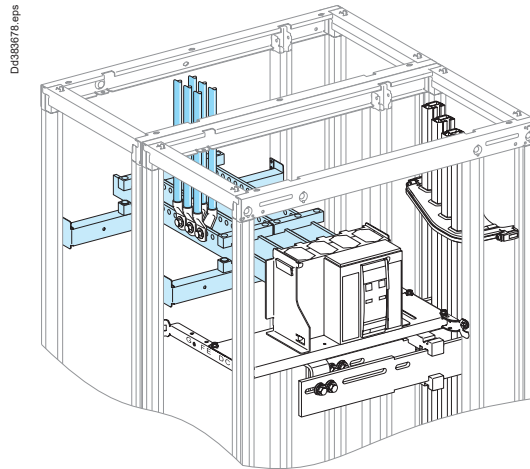
Designing customer connections

Fixed MasterPact 06-16

Electrical characteristics

MasterPact MTZ1 06 to 16 Fixed

Rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, fixed MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value.
Connection to be made according to the busbar drawings supplied.
For connection cable cross-sections and quantities > [page I-44](#).

Customer connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NT06 | Size per phase | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NT08 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NT10 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NT12 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | |
| NT16 | Size per phase | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | ■ |
| | I (A) | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1370 | 1420 | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Customer connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NT06 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NT08 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NT10 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| NT12 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1180 | 1230 | | |
| NT16 | Size per phase | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | ■ |
| | I (A) | 1600 | 1570 | 1600 | 1520 | 1570 | 1470 | 1520 | 1420 | 1470 | 1370 | 1420 | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

| Device | NT06b | NT08 | NT10 | NT12 | NT16 |
|------------------------|-------|------|------|------|------|
| Derating coefficient K | 1 | 1 | 1 | 1 | 0,98 |

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

Drawout MasterPact 06-16

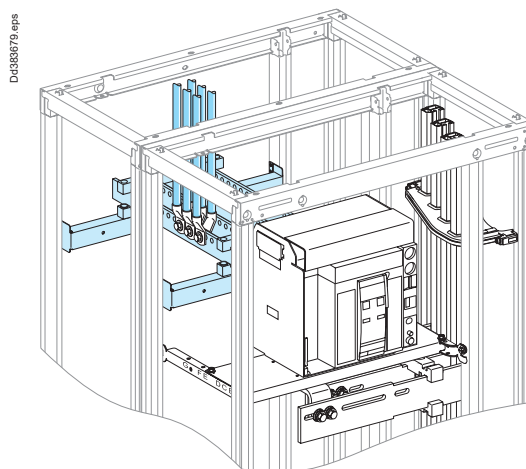
Electrical characteristics

MasterPact MTZ1 06 to 16

Rear connection

Incoming via top or bottom

Busbar drawings supplied by Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a customer connections to busbars for a vertical, drawout MasterPact MTZ1 06/16, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied. For connection cable cross-sections and quantities > page I-44.

Customer connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NT06 | Size per phase | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| NT08 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| NT10 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | ■ |
| NT12 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1230 | 1250 | 1180 | 1230 | 1130 | 1180 | ■ |
| NT16 | Size per phase | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Customer connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NT06 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | ■ |
| NT08 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | ■ |
| NT10 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | ■ |
| NT12 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1210 | 1250 | 1160 | 1210 | 1110 | 1160 | ■ |
| NT16 | Size per phase | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

| Device | NT06 | NT08 | NT10 | NT12 | NT16 |
|------------------------|------|------|------|------|------|
| Derating coefficient K | 1 | 1 | 1 | 1 | 0,98 |

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

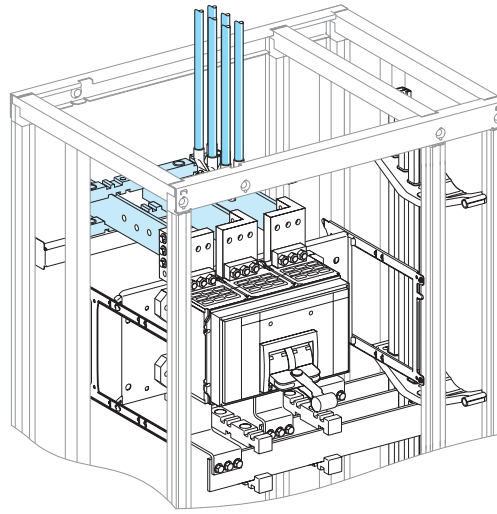
Fixed ComPacT NS1600b to NS3200

Electrical characteristics

ComPacT NS1600b/3200 fixed

- Front or rear connection
- Incoming via top or bottom
- Busbar drawings supplied by Schneider Electric

Dd383542.eps



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a front or rear customer connections to busbars for a vertical, fixed ComPacT NS1600b/NS3200, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied. For connection cable cross-sections and quantities > [page I-44](#).

Customer connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | |
|---------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NS1600b | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1560 | 1480 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |
| NS2000 | Size per phase | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | 2b 80 x 10 | ■ |
| | I (A) | 2000 | 2000 | 2000 | 1950 | 2000 | 1900 | 1950 | 1830 | 1900 | 1760 | 1830 | |
| NS2500 | Size per phase | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | 2b100 x 10 | ■ |
| | I (A) | 2470 | 2280 | 2410 | 2210 | 2350 | 2140 | 2280 | 2070 | 2210 | 2000 | 2140 | |
| NS3200 | Size per phase | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | 2b120 x 10 | ■ |
| | I (A) | 2860 | 2630 | 2790 | 2530 | 2720 | 2430 | 2630 | 2350 | 2530 | 2270 | 2430 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

Fixed ComPacT NS630b to NS1600

Electrical characteristics

ComPacT NS630b to NS1600

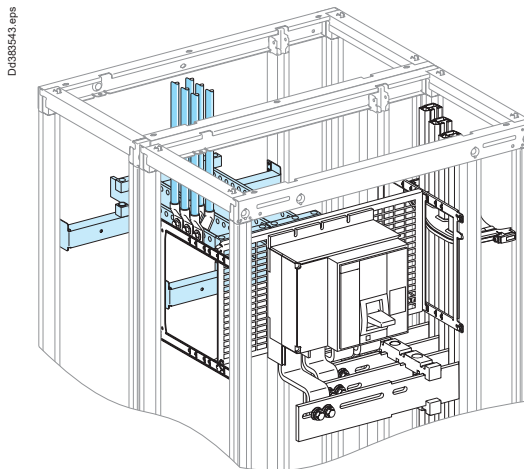
Fixed

Rear connection

Incoming via top or bottom

Busbar drawings supplied by

Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a rear customer connection for a vertical, fixed ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.

Connection to be made according to the busbar drawings supplied.

For connection cable cross-sections and quantities > page I-44.

Customer connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b | Size per phase | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | |
| NS1250 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1200 | 1250 | 1150 | 1200 | | |
| NS1600 | Size per phase | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | ■ |
| | I (A) | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Customer connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 970 | 1000 | | |
| NS1250 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1180 | 1230 | 1130 | 1180 | | | |
| NS1600 | Size per phase | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | ■ |
| | I (A) | 1600 | 1550 | 1600 | 1500 | 1550 | 1450 | 1500 | 1400 | 1450 | 1350 | 1400 | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

| Device | NS630b | NS800 | NS1000 | NS1250 | NS1600 |
|------------------------|--------|-------|--------|--------|--------|
| Derating coefficient K | 1 | 1 | 1 | 1 | 0,98 |

Note: the values indicated above have been validated for PrismaSeT P switchboards.

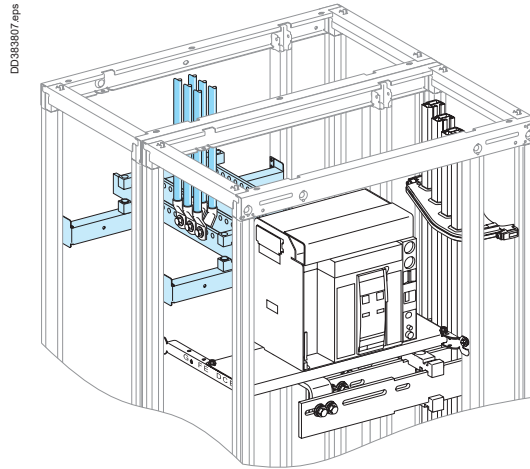
Designing customer connections

Withdrawable ComPacT NS630b to NS1600

Electrical characteristics

ComPacT NS630b to NS1600 Withdrawable

Rear connection
Incoming via top or bottom
Busbar drawings supplied by
Schneider Electric



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making a rear customer connection for a vertical, withdrawable ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value.
Connection to be made according to the busbar drawings supplied.
For connection cable cross-sections and quantities > [page I-44](#).

Customer connection

Flat bars, 5 mm thick

| Device | Permissible current (A) | Ambient temperature around the switchboard | | | | | | | | | | | |
|--------|-------------------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------|
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NS630b | Size per phase | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | 1b 60 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | 1b 80 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | |
| NS1250 | Size per phase | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | 2b 80 x 5 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1230 | 1250 | 1180 | 1230 | 1130 | 1180 | |
| NS1600 | Size per phase | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | 2b 100 x 5 | ■ |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Customer connection

Flat bars, 10 mm thick

| Device | Permissible current (A) | Ambient temperature around the switchboard | | | | | | | | | | | |
|--------|-------------------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------|
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| NS630b | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 960 | 1000 | |
| NS1250 | Size per phase | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | 1b 80 x 10 | ■ |
| | I (A) | 1250 | 1250 | 1250 | 1250 | 1250 | 1210 | 1250 | 1160 | 1210 | 1110 | 1160 | |
| NS1600 | Size per phase | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | 1b100 x 10 | ■ |
| | I (A) | 1560 | 1430 | 1520 | 1430 | 1480 | 1380 | 1430 | 1330 | 1380 | 1280 | 1330 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Canalis connection

For Canalis connections, apply the appropriate derating coefficient K.

| Device | NS630b | NS800 | NS1000 | NS1250 | NS1600 |
|------------------------|--------|-------|--------|--------|--------|
| Derating coefficient K | 1 | 1 | 1 | 1 | 0,98 |

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing customer connections

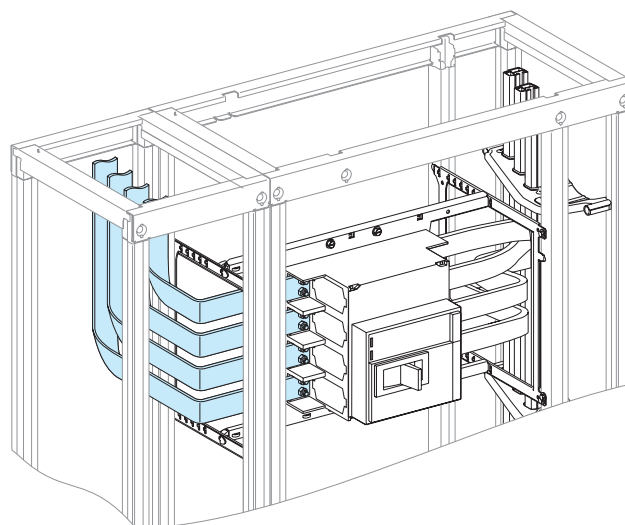
Fixed ComPacT NS630b to NS1000 Horizontal mounting

Electrical characteristics

ComPacT NS630b to NS1000

- Horizontal mounting
- Front connection
- Incoming via top or bottom
- Installation on the left or right

D:\83845.eps



Using the data below, it is possible to determine the size of the copper bars and the maximum permissible currents when making the connections to busbars for a horizontal, fixed ComPacT NS630b/NS1600, taking into account the ambient temperature around the switchboard and the IP value. Connection to be made according to the busbar drawings supplied.

Customer connection

Flat bars, 5 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS630b | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | 2b 50 x 5 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|--------|----------------|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---|
| | | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| | | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| NS630b | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS800 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS1000 | Size per phase | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | 1b 50 x 10 | ■ |
| | I (A) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Note: the values indicated above have been validated for PrismaSeT P switchboards.

Designing busbars

FuPact GS, ISFT, ISFL Linergy BS busbars

Electrical characteristics

Permissible current and selection of horizontal Linergy BS busbars

The goal is to optimise busbar size according to the installation and operating criteria.

Horizontal Linergy BS busbars

FuPact GS/ISFT/ISFL

Linergy BS bars, 5 mm thick

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|---------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| 1 Linergy BS bar, 60 x 5 | 800 | 750 | 760 | 700 | 710 | 650 | 660 | 600 | 610 | 550 | 560 | ■ |
| 1 Linergy BS bar, 80 x 5 | 1000 | 910 | 970 | 860 | 910 | 810 | 860 | 750 | 810 | 700 | 750 | ■ |
| 2 Linergy BS bars, 60 x 5 | 1400 | 1250 | 1320 | 1160 | 1250 | 1070 | 1160 | 980 | 1070 | 880 | 980 | ■ |
| 2 Linergy BS bars, 80 x 5 | 1700 | 1500 | 1600 | 1400 | 1500 | 1280 | 1400 | 1160 | 1280 | 1030 | 1160 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Linergy BS bars, 10 mm thick

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|-----------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| 1 Linergy BS bar, 50 x 10 | 1150 | 1000 | 1080 | 930 | 1000 | 850 | 930 | 760 | 850 | 670 | 760 | ■ |
| 1 Linergy BS bar, 60 x 10 | 1400 | 1250 | 1320 | 1160 | 1250 | 1070 | 1160 | 980 | 1070 | 880 | 980 | ■ |
| 1 Linergy BS bar, 80 x 10 | 1700 | 1500 | 1600 | 1400 | 1500 | 1280 | 1400 | 1160 | 1280 | 1030 | 1160 | ■ |
| 2 Linergy BS bars, 50 x 10 | 1940 | 1690 | 1840 | 1560 | 1700 | 1420 | 1560 | 1270 | 1420 | 1100 | 1270 | ■ |
| 2 Linergy BS bars, 60 x 10 | 2170 | 1900 | 2040 | 1750 | 1900 | 1590 | 1750 | 1420 | 1590 | 1240 | 1420 | ■ |
| 2 Linergy BS bars, 80 x 10 | 2670 | 2340 | 2500 | 2160 | 2340 | 1970 | 2160 | 1770 | 1970 | 1550 | 1770 | ■ |
| 2 Linergy BS bars, 100 x 10 | 3120 | 2750 | 2930 | 2520 | 2750 | 2310 | 2520 | 2070 | 2310 | 1820 | 2070 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Rear horizontal Linergy BS bars

FuPact ISFT/ISFL

Linergy BS bars, 10 mm thick

| Device | Size per phase | Permissible current (A) | | | | | | | | | | | |
|------------------|---------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Ambient temperature around the switchboard | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| ISFT 160 | 1 bar Linergy BS 30 x 10 | 730 | 680 | 680 | 630 | 630 | 570 | 570 | 510 | 510 | 450 | 450 | ■ |
| ISFL 160 | 1 bar Linergy BS 60 x 10 | 1400 | 1250 | 1320 | 1160 | 1250 | 1070 | 1160 | 980 | 1070 | 880 | 980 | ■ |
| | 1 bar Linergy BS 80 x 10 | 1700 | 1500 | 1600 | 1400 | 1500 | 1280 | 1400 | 1160 | 1280 | 1030 | 1160 | ■ |
| ISFL 250/400/630 | 1 bar Linergy BS 80 x 10 | 1700 | 1500 | 1600 | 1400 | 1500 | 1280 | 1400 | 1160 | 1280 | 1030 | 1160 | ■ |
| | 1 bar Linergy BS 100 x 10 | 2050 | 1800 | 1930 | 1680 | 1800 | 1540 | 1680 | 1400 | 1540 | 1240 | 1400 | ■ |
| | 1 bar Linergy BS 120 x 10 | 2390 | 2100 | 2250 | 1950 | 2100 | 1800 | 1950 | 1630 | 1800 | 1440 | 1630 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Designing busbars

FuPact GS, ISFT Vertical Linergy LGYE, LGY busbars

Electrical characteristics

Permissible current and selection of Linergy LGYE busbars

The goal is to optimise busbar size according to the installation and operating criteria.

Vertical Linergy LGYE busbars

FuPact GS/ISFT

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|-------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| Linergy LGYE 630 | 650 | 550 | 630 | 510 | 590 | 480 | 550 | 460 | 530 | 440 | 460 | ■ |
| Linergy LGYE 800 | 840 | 720 | 800 | 700 | 760 | 660 | 720 | 610 | 680 | 580 | 640 | ■ |
| Linergy LGYE 1000 | 1040 | 900 | 990 | 870 | 950 | 830 | 900 | 770 | 850 | 730 | 800 | ■ |
| Linergy LGYE 1250 | 1290 | 1120 | 1230 | 1080 | 1170 | 1030 | 1100 | 970 | 1050 | 910 | 980 | ■ |
| Linergy LGYE 1600 | 1580 | 1390 | 1480 | 1320 | 1390 | 1250 | 1320 | 1180 | 1250 | 1110 | 1180 | ■ |
| Linergy LGYE 2000 | 1900 | 1720 | 1820 | 1620 | 1720 | 1520 | 1620 | 1420 | 1520 | 1320 | 1420 | ■ |
| Linergy LGYE 2500 | 2290 | 1890 | 2190 | 1840 | 2070 | 1770 | 1960 | 1680 | 1880 | 1590 | 1780 | ■ |
| Linergy LGYE 3200 | 3060 | 2780 | 2920 | 2640 | 2780 | 2500 | 2640 | 2360 | 2500 | 2220 | 2360 | ■ |
| Linergy LGYE 4000 | 3320 | 3050 | 3240 | 2950 | 3140 | 2850 | 2970 | 2700 | 2800 | 2540 | 2650 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Lateral Linergy LGY busbars

FuPact GS/ISFT

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|-----------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| Linergy LGY 630 | 680 | 590 | 630 | 550 | 590 | 530 | 550 | 500 | 530 | 460 | 460 | ■ |
| Linergy LGY 800 | 840 | 760 | 800 | 720 | 760 | 680 | 720 | 640 | 680 | 600 | 640 | ■ |
| Linergy LGY 1000 | 1040 | 950 | 990 | 900 | 950 | 850 | 900 | 800 | 850 | 750 | 800 | ■ |
| Linergy LGY 1250 | 1290 | 1170 | 1230 | 1100 | 1170 | 1030 | 1100 | 970 | 1050 | 910 | 980 | ■ |
| Linergy LGY 1600 | 1580 | 1390 | 1480 | 1320 | 1390 | 1250 | 1320 | 1180 | 1250 | 1110 | 1180 | ■ |
| Linergy LGY 2000 (2 x 1000) | 1900 | 1720 | 1820 | 1620 | 1720 | 1520 | 1620 | 1420 | 1520 | 1320 | 1420 | ■ |
| Linergy LGY 2500 (2 x 1250) | 2380 | 2120 | 2260 | 2020 | 2120 | 1900 | 2020 | 1780 | 1900 | 1660 | 1780 | ■ |
| Linergy LGY 3200 (2 x 1600) | 3060 | 2780 | 2920 | 2640 | 2780 | 2500 | 2640 | 2360 | 2500 | 2220 | 2360 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Designing busbars

FuPact GS, ISFT Vertical Linergy BS busbars

Electrical characteristics

Lateral Linergy BS busbars

FuPact GS/ISFT

Linerigy BS bars, 5 mm thick

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|---------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| 1 Linergy BS bar, 60 x 5 | 800 | 750 | 760 | 700 | 710 | 650 | 660 | 600 | 610 | 550 | 560 | ■ |
| 1 Linergy BS bar, 80 x 5 | 1000 | 910 | 970 | 860 | 910 | 810 | 860 | 750 | 810 | 700 | 750 | ■ |
| 2 Linergy BS bars, 60 x 5 | 1400 | 1250 | 1320 | 1160 | 1250 | 1070 | 1160 | 980 | 1070 | 880 | 980 | ■ |
| 2 Linergy BS bars, 80 x 5 | 1700 | 1500 | 1600 | 1400 | 1500 | 1280 | 1400 | 1160 | 1280 | 1030 | 1160 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Linerigy BS bars, 10 mm thick

| Type of bars | Permissible current (A) | | | | | | | | | | | |
|-------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | |
| Size per phase | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 |
| 1 Linergy BS bar, 50 x 10 | 1150 | 1000 | 1080 | 930 | 1000 | 850 | 930 | 760 | 850 | 670 | 760 | ■ |
| 1 Linergy BS bar, 60 x 10 | 1400 | 1250 | 1320 | 1160 | 1250 | 1070 | 1160 | 980 | 1070 | 880 | 980 | ■ |
| 1 Linergy BS bar, 80 x 10 | 1700 | 1500 | 1600 | 1400 | 1500 | 1280 | 1400 | 1160 | 1280 | 1030 | 1160 | ■ |
| 2 Linergy BS bars, 50 x 10 | 1940 | 1690 | 1810 | 1560 | 1700 | 1420 | 1560 | 1270 | 1420 | 1100 | 1270 | ■ |
| 2 Linergy BS bars, 60 x 10 | 2170 | 1900 | 2040 | 1750 | 1900 | 1590 | 1750 | 1420 | 1590 | 1240 | 1420 | ■ |
| 2 Linergy BS bars, 80 x 10 | 2670 | 2340 | 2500 | 2160 | 2340 | 1970 | 2160 | 1770 | 1970 | 1550 | 1770 | ■ |
| 2 x 1 Linergy BS bar, 80 x 10 | 3020 | 2650 | 2840 | 2450 | 2650 | 2230 | 2450 | 2010 | 2230 | 1760 | 2010 | ■ |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

Designing connections ≤630A

TransferPacT Active Automatic/Automatic/Remote 250A & 630A

Insulated flexible copper bars ⁽¹⁾

Electrical characteristics

TransferPacT 250A & 630A

Insulated flexible copper bars (withstand temperature = 125 °C)

We recommend insulated flexible copper bars for TransferPacT 250A & 630A.

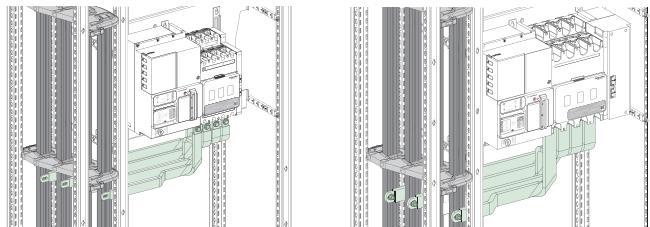
Vertical Mounting

Front Connection

Incoming Top Connection - Cable

Outgoing Bottom Connection - Flexible Busbar

Installation on the left or right LGY/LGYE



Outgoing connection

Flexible Busbar Flat 3 mm (250A) & 8 mm (630A) Thick

| Device | Permissible current (A) | | | | | | | | | | | | |
|-------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Ambient temperature around the switchboard | | | | | | | | | | | | |
| | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| Cable Size | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| TransferPacT 250A | Size per phase (mm ²) | 1b 20X3 | 1b 20X3 | 1b 20X3 | 1b 20X3 | 1b 20X3 | 1b 20X3 | 1b 20X3 | 1b 20X3 | 1b 20X3 | 1b 20X3 | 1b 20X3 | 1b 20X3 |
| | I(A) | 250 | 250 | 250 | 250 | 250 | 240 | 250 | 230 | 240 | 220 | 225 | 208 |
| TransferPacT 630A | Size per phase (mm ²) | 1b 32X8 | 1b 32X8 | 1b 32X8 | 1b 32X8 | 1b 32X8 | 1b 32X8 | 1b 32X8 | 1b 32X8 | 1b 32X8 | 1b 32X8 | 1b 32X8 | 1b 32X8 |
| | I(A) | 580 | 545 | 565 | 525 | 545 | 505 | 525 | 490 | 505 | 475 | 490 | 430 |

Note: The values indicated above have been validated for PrismaSeT P switchboards.

(1) We recommend insulated flexible copper bars instead of copper cable for TransferPacT 250A to 630A outgoing connection.

Selection of enclosures according to the premises

Enclosure characteristics

The IP and IK degrees of protection provided by an enclosure must be specified as a function of the various external influences defined by standard IEC 30364-5-51, in particular:

- presence of foreign solid bodies (code AE)
- presence of water (code AD)
- mechanical stress (code not specified)
- capability of persons (code BA)
- ...

PrismaSeT P switchboards are designed for indoor installation.

Unless the rules, standards and regulations of a specific country stipulate otherwise, Schneider Electric recommends the following IP and IK values based on French guide UTE C 15-103 (March 2004).

Using the table

- 1 Opposite the relevant premises, read the recommended IP and IK values.
- 2 The ■ symbol indicates the enclosure or cubicle satisfying the criteria of the UTE guide.
Any enclosure or cubicle with a higher degree of protection can also be used.
- 3 If several degrees of protection are possible (refer to the standard for more details) and the □ and ■ symbols are indicated (e.g. 24[□]/25[■]), enclosures that correspond to the higher degree of protection (■) are suitable for the lower degree of protection (□).

| Type of premises | Enclosure | | | | | | |
|---|---------------------|-----------|------------------|------------------------|---------------------------------|------------------------|-----------|
| | Cubicle | | with fixed frame | with door + IP30 cover | with door + gasket + IP30 cover | with door + IP55 cover | |
| | Min. IP/IK required | IP30/IK07 | | | | | IP30/IK08 |
| IP | IK | | | | | | |
| Domestic or comparable premises or locations | | | | | | | |
| Porch | 24 | 07 | | | | | ■ |
| Bathrooms (see washrooms) | | | | | | | |
| Bicycles, motorcycles, tricycles, etc. (premises for) | 20 | 07 | ■ | | | | |
| Water, sewer and heating connections | 23 | 02 | | | | ■ | |
| Laundries | 21 | 02 | | | ■ | | |
| Cellars, garages, furnace rooms | 20 | 02/07 | ■ | | | | |
| Bedrooms | 20 | 02 | ■ | | | | |
| Trash rooms | 25 | 07 | | | | | ■ |
| Halls in cellars | 20 | 07 | | | | | |
| Courtyards | 24/25 | 02/07 | | | | | ■ |
| Kitchens | 20 | 02 | ■ | | | | |
| Shower rooms (see washrooms) | | | | | | | |
| Indoor stairways and alleys | 20 | 02/07 | ■ | | | | |
| Outdoor stairways and outdoor alleys without roofs | 24 | 07 | | | | | |
| Outdoor alleys with roofs | 21 | 02 | | | ■ | | |
| Attics (roof space) | 20 | 02 | ■ | | | | |
| Garden shelters | 24/25 | 02/07 | | | | | ■ |
| Latrines | 20 | 02 | ■ | | | | |
| Dustbin rooms | 25 | 02/07 | | | | | ■ |
| Ironing room | 20 | 02 | ■ | | | | |
| Access ramps to garages | 25 | 07 | | | | | ■ |

No applicable

Selection of enclosures according to the premises

Enclosure characteristics

| Type of premises | | Enclosure | | | | | | | |
|---|--------------------|---------------------|----------------------------------|------------------|------------------------|---------------------------------|-----------|------------------------|--|
| | | Cubicle | | with fixed frame | with door + IP30 cover | with door + gasket + IP30 cover | IP43/IK08 | with door + IP55 cover | |
| | | Min. IP/IK required | IP30/IK07 | IP30/IK08 | IP31/IK08 | IP55/IK10 | | | |
| | | IP | IK | | | | | | |
| Washrooms, rooms containing a bathtub or shower | volume 0 | 27 | 02 | | | | | | |
| | volume 1 | 24 | 02 | | | | | ■ | |
| | volume 2 | 23 | 02 | | | | ■ | | |
| | volume 3 | 21 | 02 | | | ■ | | | |
| Lounges, living rooms, etc | | 20 | 02 | ■ | | | | | |
| Drying rooms | | 21 | 02 | | | ■ | | | |
| Covered terraces | | 21 | 02 | | | ■ | | | |
| WCs | | 20 | 02 | ■ | | | | | |
| Verandas | | 20 | 02 | ■ | | | | | |
| Crawl spaces | | 23 | 07 | | | | | | |
| Commercial premises and adjoining areas | | | | | | | | | |
| Gunsmiths (storage area, workshop) | | 30 | 08 | | ■ | | | | |
| Laundries (wash room) | | 24 | 07 | | | | | ■ | |
| Butchers | shop | 24 | 07 | | | | | ■ | |
| | cold room ≤ -10 °C | 23 | 07 | | | | ■ | | |
| Bakers, cake shops (kitchens) | | 50 | 07 | | | | | ■ | |
| Coffee roasters | | 21 | 02 | | | ■ | | | |
| Coal, wood, oil | | 20 | 08 | | ■ | | | | |
| Delicatessen (production) | | 24 | 07 | | | | | ■ | |
| Sweets (production) | | 20 | 02 | ■ | | | | | |
| Shoe repair shops | | 20 | 02 | ■ | | | | | |
| Dairies | | 24 | 02 | | | | | ■ | |
| Hardware stores (storage areas for chemicals and paint) | | 33 | 07 | | | | ■ | | |
| Wood workers | | 50 | 07 | | | | | ■ | |
| Art galleries | | 20 | 02/07 | ■ | | | | | |
| Florists | | 24 | 07 | | | | | ■ | |
| Furriers | | 20 | 07 | ■ | | | | | |
| Fruit and vegetable merchants | | 24 | 07 | | | | | ■ | |
| Grain shops | | 50 | 07 | | | | | ■ | |
| Bookshops, stationers | | 20 | 02 | ■ | | | | | |
| Motorcycle and bicycle repairs and accessories | | 20 | 08 | | ■ | | | | |
| Messenger services | | 20 | 08 | | ■ | | | | |
| Furniture shops (antiques, secondhand) | | 20 | 07 | ■ | | | | | |
| Glass and mirror merchants (workshop) | | 20 | 07 | ■ | | | | | |
| Wallpaper shop (storage area) | | 20 | 07 | ■ | | | | | |
| Cosmetics shop (storage area) | | 20 | 02 | ■ | | | | | |
| Chemists (storage area) | | 20 | 02 | ■ | | | | | |
| Photographers (dark room) | | 23 | 02 | | | | ■ | | |
| Plumbers (storage area) | | 20 | 08 | | ■ | | | | |
| Fishmongers | | 25 | 07 | | | | | ■ | |
| Dry cleaners | | 23 | 02 | | | | ■ | | |
| Hardware stores (without paint, chemicals, etc.) | | 20 | 07 | ■ | | | | | |
| Locksmiths | | 20 | 07 ² /08 ² | ■ | ■ | | | | |
| Vintners, spirits | | 20 | 07 | ■ | | | | | |
| Interior decorator (carding) | | 50 | 07 | | | | | ■ | |
| Tailors, clothing retailers (storage area) | | 20 | 02 | ■ | | | | | |
| Pet care | | 35 | 07 | | | | | ■ | |

No applicable

Selection of enclosures according to the premises

Enclosure characteristics

| Type of premises | | Enclosure | | | | | | |
|---|--|--|----------------------------------|----------------------------------|------------------------|---------------------------------|-----------|------------------------|
| | | Cubicle | | with fixed frame | with door + IP30 cover | with door + gasket + IP30 cover | IP43/IK08 | with door + IP55 cover |
| | | Min. IP/IK required | | IP30/IK07 | IP30/IK08 | IP31/IK08 | IP43/IK08 | IP55/IK10 |
| | | IP | IK | | | | | |
| Shared premises of buildings open to the general public | storage rooms | 20 | 08 | | ■ | | | |
| | packing rooms | 20 | 08 | | ■ | | | |
| | archive rooms | 20 | 02 | ■ | | | | |
| | film and magnetic media storage | 20 | 02 | ■ | | | | |
| | linen rooms | 20 | 02 | ■ | | | | |
| | laundry rooms | 24 | 07 | | | | | ■ |
| | misc. shops | 21 | 07/08 | | | | ■ | |
| | kitchens (large) | | | | | | | |
| J | Reception old and handicapped people | 20 | 02 | ■ | | | | |
| L | Lecture halls, meeting rooms, auditoriums, halls used for several purposes | halls | 20 | 02/07 | ■ | | | |
| | | stage areas | 20 | 08 | | ■ | | |
| | | scenery storage rooms | 20 | 08 | | ■ | | |
| | | costume rooms | 20 | 07 | ■ | | | |
| M | Retail premises, shopping malls | sales premises | 20 | 08 | | ■ | | |
| | | areas for storage and handling of packing | 20 | 08 | | ■ | | |
| N | Restaurants and cafes | 20 | 08 | | ■ | | | |
| O | Hotels and boarding houses | 20 | 02 | ■ | | | | |
| P | Dance halls and gaming parlours | 20 | 07 | ■ | | | | |
| R | Teaching establishments, holiday camps | classrooms | 20 | 02 | ■ | ■ | | |
| | | dormitories | 20 | 08 | | ■ | | |
| S | Libraries and documentation centres | | 20 | 02 | ■ | | | |
| | | | 20 | 02 | ■ | | | |
| T | Exhibitions | halls and rooms | 20 | 02 | ■ | | | |
| | | areas for reception of equipment and merchandise | 20 | 07 | ■ | | | |
| U | Healthcare establishments | bedrooms | 20 | 02 | ■ | | | |
| | | incineration | 21 | 07/08 | | | ■ | |
| | | operating rooms | 20 | 07 | ■ | | | |
| | | centralised sterilisation | 24 | 02/07 | | | | ■ |
| | pharmacies and labs with more than 10 l of inflammable liquids | 21 ² /23 ² | 02 ² /07 ² | | | ■ | ■ | |
| V | Places of worship | 20 | 02 | ■ | | | | |
| W | Administrative premises, banks | 20 | 02 | ■ | | | | |
| X | Indoor sports facilities | halls | 20 | 07 ² /08 ² | ■ | ■ | | |
| | | premises containing refrigeration facilities | 21 | 08 | | | ■ | |
| Y | Museums | 20 | 02 | ■ | | | | |
| PA | Covered open air facilities | 23 ² /25 ² | 08 ² /10 ² | | | | ■ | ■ |
| CTS | Marquees and tents | 44 | 08 | | | | | ■ |
| SG | Inflatable structures | 44 | 08 | | | | | ■ |
| PS | Covered parking lots | 21 | 08 ² /10 ² | | | ■ | | ■ |

Selection of enclosures according to the premises

Enclosure characteristics

| Type of premises | Enclosure | | | | | | |
|---|----------------------------------|----------------------------------|----------------------------------|------------------------|---------------------------------|-----------|------------------------|
| | Cubicle | | with fixed frame | with door + IP30 cover | with door + gasket + IP30 cover | | with door + IP55 cover |
| | Min. IP/IK required | | IP30/IK07 | IP30/IK08 | IP31/IK08 | IP43/IK08 | IP55/IK10 |
| | IP | IK | | | | | |
| Technical premises | | | | | | | |
| Battery rooms | 23 | 02/07 | | | | ■ | |
| Lifts (machine rooms and pulley rooms) | 20 | 07 [□] /08 [■] | ■ | ■ | | | |
| Electrical rooms | 20 | 07 | ■ | | | | |
| Control rooms | 20 | 02 | ■ | | | | |
| Workshops | 21 [□] /23 [■] | 07 [□] /08 [■] | | | ■ | ■ | |
| Laboratories | 21 [□] /23 [■] | 02 [□] /07 [■] | | | ■ | ■ | |
| Air conditioning washers | 24 | 07 | | | | | ■ |
| Garages (used exclusively for parking vehicles) of an area not exceeding 100 m ² | 21 | 07 | | | ■ | | |
| Machine rooms | 31 | 07/08 | | | ■ | | |
| Water pressurisers | 23 | 07/08 | | | | ■ | |
| Boiler houses and adjoining premises (power in excess of 70 kW) | | | | | | | |
| Boiler rooms | coal fuel | 51 [□] /61 [■] | 07 [□] /08 [■] | | | | ■ |
| | other fuel | 21 | 07/08 | | | ■ | |
| | electrical | 21 | 07/08 | | | ■ | |
| Fuel storage areas | coal | 50 [□] /60 [■] | 08 | | | | ■ |
| | oil | 20 | 07 [□] /08 [■] | ■ | ■ | | |
| | liquefied gas | 20 | 07 [□] /08 [■] | ■ | ■ | | |
| Cinder tips | 50 | 08 | | | | | ■ |
| Pump rooms | 21 [□] /23 [■] | 07 [□] /08 [■] | | | ■ | ■ | |
| Pressure reduction rooms (gas) | 20 | 07 [□] /08 [■] | ■ | ■ | | | |
| Steam or hot water facilities | 21 [□] /23 [■] | 07 [□] /08 [■] | | | ■ | ■ | |
| Expansion vessel room | 21 | 02 | | | ■ | | |
| Garages and car parks of an area exceeding 100 m² | | | | | | | |
| Parking lots | 21 | 07 [□] /10 [■] | | | ■ | | ■ |
| Carwash areas (inside premises) | 25 | 07 | | | | | ■ |
| Petrol stations | inside | 21 | 07 | | | ■ | |
| | outside | | | | | | |
| Lubrication areas | 23 | 08 | | | | ■ | |
| Battery recharging areas | 23 | 07 | | | | ■ | |
| Workshops | 21 | 08 | | | ■ | | |
| Public building (other than for the general public) | | | | | | | |
| Offices | 20 | 02 | ■ | | | | |
| Libraries | 20 | 02 | ■ | | | | |
| Archives | 20 | 02 | ■ | | | | |
| Computer rooms | 20 | 02 | ■ | | | | |
| Design offices | 20 | 02 | ■ | | | | |
| Rooms containing reprographic machines | 20 | 02 | ■ | | | | |
| Sorting rooms | 20 | 07 | ■ | | | | |
| Refectories in restaurants or canteens | 21 | 07 | | | ■ | | |
| Large kitchens | | | | | | | |
| Sports rooms | 20 | 07 [□] /08 [■] | ■ | ■ | | | |
| Barracks | 20 | 07 | ■ | | | | |
| Meeting rooms | 20 | 02 | ■ | | | | |
| Waiting rooms, lounges, halls | 20 | 02 | ■ | | | | |
| Medical consulting rooms, not fitted with specific equipment | 20 | 02 | ■ | | | | |
| Demonstration and exhibition rooms | 20 | 02/07 | ■ | | | | |

No applicable

Selection of enclosures according to the premises

Enclosure characteristics

| Type of premises | Enclosure | | | | | | |
|--|--|-------|------------------|------------------------|---------------------------------|-----------|------------------------|
| | Cubicle | | with fixed frame | with door + IP30 cover | with door + gasket + IP30 cover | | with door + IP55 cover |
| | Min. IP/IK required | | IP30/IK07 | IP30/IK08 | IP31/IK08 | IP43/IK08 | IP55/IK10 |
| | IP | IK | | | | | |
| Farm premises or locations | | | | | | | |
| Alcohol (storage) | 23 | 07 | | | | ■ | |
| Closed cattle sheds | 35 | 07 | | | | | ■ |
| Laundries | 24 | 07 | | | | | ■ |
| Wood storage rooms | 30 | 10 | | | | | ■ |
| Threshing floors | 50 | 07 | | | | | ■ |
| Distilling cellars | 23 | 07 | | | | ■ | |
| Vat rooms (wine) | 23 | 07 | | | | ■ | |
| Courtyards | 35 | 07 | | | | | ■ |
| Poultry barns | 35 | 07 | | | | | ■ |
| Stables | 35 | 07 | | | | | ■ |
| Fertiliser (storage) | 50 | 07 | | | | | ■ |
| Stables | 35 | 07 | | | | | ■ |
| Manure heaps | 24 | 07 | | | | | ■ |
| Haylofts | 50 | 07 | | | | | ■ |
| Haystacks, forage (storage) | 50 | 07 | | | | | ■ |
| Granaries, barns | 50 | 07 | | | | | ■ |
| Straw (storage) | 50 | 07 | | | | | ■ |
| Greenhouses | 23 | 07 | | | | ■ | |
| Grain silos | 50 | 07 | | | | | ■ |
| Milking rooms | 35 | 07 | | | | | ■ |
| Pig sties | 35 | 07 | | | | | ■ |
| Chicken houses | 35 | 07 | | | | | ■ |
| Miscellaneous installations | | | | | | | |
| Fair facilities | 33 | 08 | | | | ■ | |
| Water treatment facilities | 24/25 | 07/08 | | | | | ■ |
| Thermodynamic installations, air-conditioned rooms and cold rooms | | | | | | | |
| Height above ground | from 0 to 1.10 m | 25 | 07 | | | | ■ |
| | from 1.10 to 2 m | 24 | 07 | | | | ■ |
| | above 2 m under evaporator or water drain pipe | 21 | 07 | | | ■ | |
| | ceiling and up to 10 cm underneath | 23 | 07 | | | | ■ |
| Temperature ≤ -10 °C | | 23 | 07 | | | ■ | |
| Compressor room | room | 21 | 08 | | | ■ | |
| | integral unit located outside or on a terrace | 34 | 08 | | | | |

No applicable

Selection of enclosures according to the premises

Enclosure characteristics

| Type of premises | Enclosure | | | | | | |
|---|----------------------------------|----|------------------|------------------------|---------------------------------|-----------|------------------------|
| | Cubicle | | with fixed frame | with door + IP30 cover | with door + gasket + IP30 cover | IP43/IK08 | with door + IP55 cover |
| | Min. IP/IK required | | IP30/IK07 | IP30/IK08 | IP31/IK08 | | IP55/IK10 |
| | IP | IK | | | | | |
| Industrial facilities | | | | | | | |
| Slaughter houses | 55 | 08 | | | | | ■ |
| Batteries (manufacture) | 33 | 07 | | | | ■ | |
| Acid (manufacture and storage) | 33 | 07 | | | | ■ | |
| Alcohol (manufacture and storage) | 33 | 07 | | | | ■ | |
| Aluminium (manufacture and storage) | 51 | 08 | | | | | ■ |
| Livestock (raising, fattening and sale) | 45 | 07 | | | | | ■ |
| Asphalt and bitumen storage | 53 | 07 | | | | | ■ |
| Wool beating and carding | 50 | 08 | | | | | ■ |
| Industrial laundry | 24/25 | 07 | | | | | ■ |
| Wood (processing) | 50 | 08 | | | | | ■ |
| Meat packers | 24/25 | 07 | | | | | ■ |
| Bakeries | 50 | 07 | | | | | ■ |
| Breweries | 24 | 07 | | | | | ■ |
| Brickworks | 53 | 08 | | | | | ■ |
| Rubber (production and processing) | 54 | 07 | | | | | ■ |
| Carbide (manufacture and storage) | 51 | 07 | | | | ■ | ■ |
| Ammunition factories | 53 | 08 | | | | | ■ |
| Carton board (production) | 33 | 07 | | | | ■ | |
| Quarries | 55 | 08 | | | | | ■ |
| Celluloid (manufacture of objects) | 30 | 08 | | ■ | | | |
| Cellulose (manufacture) | 34 | 08 | | | | | ■ |
| Coal (depots) | 53 | 08 | | | | | ■ |
| Pork products | 24/25 | 07 | | | | | ■ |
| Boiler-making works | 30 | 08 | | ■ | | | |
| Lime kilns | 50 | 08 | | | | | ■ |
| Rag (storage) | 30 | 07 | ■ | | | | |
| Chlorine (manufacture and storage) | 33 | 07 | | | | ■ | |
| Chrome-plating | 33 | 07 | | | | ■ | |
| Cement works | 50 | 08 | | | | | ■ |
| Coking plant | 53 | 08 | | | | | ■ |
| Adhesives (production) | 33 | 07 | | | | | ■ |
| Bottling lines | 35 | 08 | | | | | ■ |
| Liquid fuels (storage) | 31 [□] /33 [■] | 08 | | | ■ | | |
| Fats (processing) | 51 | 07 | | | | | ■ |
| Leather (tanning and storage) | 31 | 08 | | | ■ | | |
| Copper (ore processing) | 31 | 08 | | | ■ | | |
| Paint stripping | 54 | 08 | | | | ■ | ■ |
| Detergents (manufacture) | 53 | 07 | | | | ■ | ■ |
| Distilleries | 33 | 07 | | | | ■ | |
| Electrolysis | 33 | 08 | | | | ■ | |
| Ink manufacturing | 31 | 07 | | | ■ | | ■ |
| Fertilisers (manufacture and storage) | 53 | 07 | | | | | ■ |
| Explosives (manufacture and storage) | 55 | 08 | | | | | ■ |
| Iron (production and processing) | 51 | 08 | | | | | ■ |
| Spinning mills | 50 | 07 | | | | | ■ |
| Furriers (beating process) | 50 | 07 | | | | | ■ |
| Cheese factories | 25 | 07 | | | | | ■ |
| Gas (production and storage) | 31 | 08 | | | ■ | | |
| Tar (processing) | 33 | 05 | | | | ■ | |
| Seed production | 50 | 07 | | | | | ■ |
| Metal engraving | 33 | 07 | | | | ■ | |
| Oils (extraction) | 31 | 07 | | | ■ | | |
| Petroleum products (manufacture) | 33 [□] /34 [■] | 08 | | | | ■ | ■ |
| Printworks | 20 | 08 | | | | | |

Selection of enclosures according to the premises

Enclosure characteristics

| Type of premises | Enclosure | | | | | | |
|--|----------------------------------|----|------------------|------------------------|---------------------------------|-----------|------------------------|
| | Cubicle | | with fixed frame | with door + IP30 cover | with door + gasket + IP30 cover | IP43/IK08 | with door + IP55 cover |
| | Min. IP/IK required | | IP30/IK07 | IP30/IK08 | IP31/IK08 | | IP55/IK10 |
| | IP | IK | | | | | |
| Industrial establishments (continued) | | | | | | | |
| Dairies | 25 | 07 | | | | | ■ |
| Public wash-houses | 25 | 07 | | | | | ■ |
| Liqueurs (production) | 21 | 07 | | | ■ | | |
| Halogenated liquids (use) | 21 | 08 | | | ■ | | |
| Inflammable products (storage and workshops where they are used) | 21 | 08 | | | ■ | | |
| Magnesium (production, storage and use) | 31 | 08 | | | ■ | | |
| Machine rooms | 20 | 08 | | ■ | | | |
| Plastics (production) | 51 | 08 | | | | | ■ |
| Cabinet makers | 50 | 08 | | | | | ■ |
| Metals (processing) | 31 [□] /33 [■] | 08 | | | ■ | ■ | |
| Combustion engines (testing of) | 30 | 08 | | ■ | | | |
| Ammunition storage | 33 | 08 | | | | ■ | |
| Nickel (or processing) | 33 | 08 | | | | ■ | |
| Household waste (processing) | 54 | 07 | | | | | ■ |
| Paper (production) | 33 [□] /34 [■] | 07 | | | ■ | ■ | ■ |
| Paper (storage) | 31 | 07 | | | ■ | | |
| Perfume (production and storage) | 31 | 07 | | | ■ | | |
| Pulp mill | 34/35 | 07 | | | | ■ | ■ |
| Paint (production and storage) | 33 | 08 | | | | ■ | |
| Plaster (processing and storage) | 50 | 07 | | | | | ■ |
| Gunpowder factory | 55 | 08 | | | | | ■ |
| Chemicals (production) | 30 [□] /50 [■] | 08 | | ■ | | | ■ |
| Oil refineries | 34/35 | 07 | | | | | ■ |
| Salt preserve factories | 33 | 07 | | | | ■ | |
| Soap (production) | 31 | 07 | | | ■ | | |
| Saw mills | 50 | 08 | | | | | ■ |
| Metalwork shops | 30 | 08 | | ■ | | | |
| Grain or sugar silos | 50 | 07 | | | | | ■ |
| Silk and artificial hair factories | 50 | 08 | | | | | ■ |
| Sodium carbonate (processing and storage) | 33 | 07 | | | | ■ | |
| Sulphur (processing) | 51 | 07 | | | | | ■ |
| Spirits (storage) | 33 | 07 | | | | ■ | |
| Sugar mills | 55 | 07 | | | | ■ | ■ |
| Tanners | 35 | 07 | | | | | ■ |
| Dye works | 35 | 07 | | | | | ■ |
| Textile and fabric (production) | 51 | 08 | | | | | ■ |
| Varnish (production and application) | 33 | 08 | | | | ■ | |
| Glass works | 33 | 08 | | | | ■ | |
| Zinc works | 31 | 08 | | | ■ | | |

No applicable

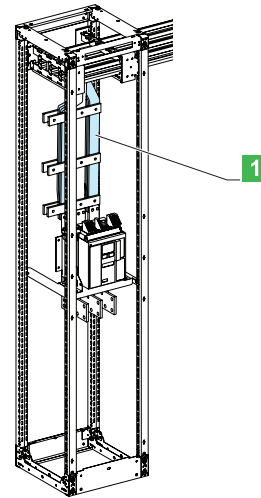
Designing connections between a device and busbars

Dedicated cubicle - W = 400 mm

Electrical characteristics

Fixed MasterPacT / MTZ1 06 to 16
Fixed ComPacT NS630b to NS1600

Dedicated cubicle
Linergy LGYE, BS busbars
Connections drawings supplied by Schneider Electric



1 Connection

Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|---------------------------------------|----------------|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---|
| | | Ambient temperature (°C) | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| Fixed NS, MTZ1/NT | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS 630, NT 630 & MTZ1 630 | Size per phase | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | ■ |
| | Fixed I (A) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS 800, NT 800 & MTZ1 800 | Size per phase | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | ■ |
| | Fixed I (A) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS 1000, NT 1000 & MTZ1 1000 | Size per phase | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | ■ |
| | Fixed I (A) | 1000 | 1000 | 1000 | 1000 | 980 | 940 | 960 | 920 | 940 | 900 | 920 | | |
| NS 1250, NT 1250 & MTZ1 1250 | Size per phase | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | ■ |
| | Fixed I (A) | 1240 | 1080 | 1200 | 1050 | 1160 | 1020 | 1125 | 980 | 1085 | 950 | 1040 | | |
| NS 1600, NT 1600 & MTZ1 1600 | Size per phase | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | ■ |
| | Fixed I (A) | 1525 | 1380 | 1490 | 1345 | 1450 | 1310 | 1415 | 1275 | 1375 | 1240 | 1330 | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

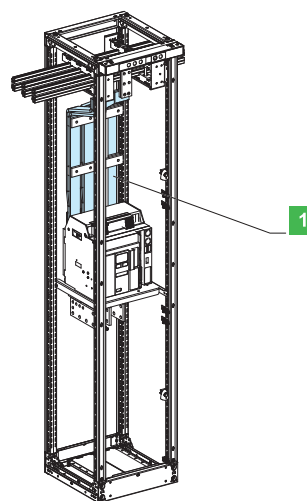
Designing connections between a device and busbars

Dedicated cubicle - W = 400 mm

Electrical characteristics

Drawout MasterPacT / MTZ1 06 to 16
 Drawout ComPacT NS630b to NS1600

Dedicated cubicle
 Linergy LGYE, BS busbars
 Connections drawings supplied by Schneider Electric



1 Connection

Connection

Flat bars, 10 mm thick

| Device | | Permissible current (A) | | | | | | | | | | | | |
|------------------------------|----------------|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---|
| | | Ambient temperature (°C) | | | | | | | | | | | | |
| | | 25 °C | | 30 °C | | 35 °C | | 40 °C | | 45 °C | | 50 °C | | |
| Drawout NS, MTZ1/NT | | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | IP ≤ 31 | IP > 31 | |
| NS 630, NT 630 & MTZ1 630 | Size per phase | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | ■ |
| | Drawout A (l) | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | 630 | |
| NS 800, NT 800 & MTZ1 800 | Size per phase | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | ■ |
| | Drawout A (l) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | |
| NS 1000, NT 1000 & MTZ1 1000 | Size per phase | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | ■ |
| | Drawout A (l) | 1000 | 1000 | 1000 | 1000 | 980 | 940 | 960 | 920 | 940 | 900 | 920 | | |
| NS 1250, NT 1250 & MTZ1 1250 | Size per phase | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | 1b 50x10 | ■ |
| | Drawout A (l) | 1230 | 1070 | 1190 | 1040 | 1155 | 1005 | 1115 | 970 | 1075 | 935 | 1030 | | |
| NS 1600, NT 1600 & MTZ1 1600 | Size per phase | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | 2b 50x10 | ■ |
| | Drawout A (l) | 1515 | 1340 | 1480 | 1305 | 1440 | 1270 | 1400 | 1235 | 1355 | 1200 | 1315 | | |

■ Connection impossible due to the operating-temperature limits of the devices installed in the switchboard.

After sales tools

Contents

Practical information

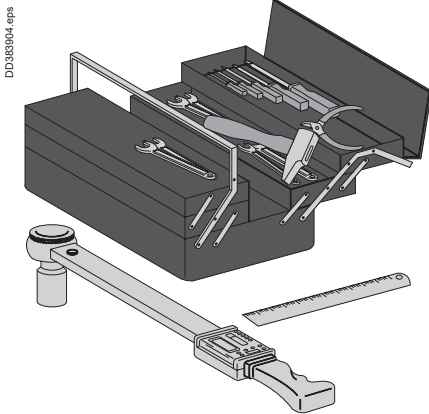
| | |
|--|-------------|
| Tools required for mounting and connection | J-2 |
| Connection of horizontal to vertical busbars | J-3 |
| Installation of the current transformer | J-4 |
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Maintenance

| | |
|-------------------------------|-------------|
| Preventive maintenance | J-18 |
| Corrective maintenance | J-20 |

Tools required for mounting and connection

Practical information



DD388594.eps

- Vacuum cleaner to clean the switchboards
- Ratchet wrench with sockets
- Torque wrench with sockets and ring bits to tighten the electrical connections to the correct torque (max. torque 50 Nm)
- Open-ended torque wrench
- Open-ended spanners (15 to 27 mm).
- Electrician's knife
- 7, 8, 10, 13, 16, 17 and 19 mm sockets
- Bit holder socket
- 4, 5, 6, 8 and 10 mm hexagonal-head bits
- Pozidriv no. 1, 2 and 3 bits
- Rubber mallet
- Level.
- Measurement and inspection tools and instruments
- Drill
- Semi-circuit nosed pliers
- Cable-tie pliers
- Wire stripper
- Crimping tool
- Diagonal cutter
- Wire cutters
- Flat-nosed pliers
- Bit holder for screwdriver
- Extension
- Electric saw
- Jig saw
- Clamp for cubicle alignment
- Buzzer or tester
- 3, 5, 4, 5.5 and 8 mm flat screwdrivers
- Posidriv no. 2 crosshead screwdriver (to mount handle)
- Hydraulic jacks that can be operated in horizontal position to lift cubicles and move them sideways if necessary.
- Coloured, indelible and temperature resistant acrylic varnish.
- Electric screwdriver

Note: a Facom brand torque wrench is available with a capacity of 75 Nm and a thin shape. It is recommended for tightening under difficult access conditions.

Part numbers:

- SP3723 = wrench handle (essential)
- SP3721 = extra-flat ratchet adapter (essential)
- SP3722 = ratchet for ordinary sockets (optional) for mounting on handle SP3723
- SP2709 = extra-flat 13 mm short socket
- SP2709A = extra-flat 13 mm long socket
- SP4369 = extra-flat 16 mm short socket
- SP4370 = extra-flat 16 mm long socket
- SP2710 = extra-flat 17 mm short socket
- SP4371 = extra-flat 19 mm short socket
- SP4372 = extra-flat 19 mm long socket.

Connection of horizontal to vertical busbars

Practical information

Horizontal busbars can be connected to vertical busbars (Linergy LGY or Linergy BS) in two ways:

- in a duct (by a direct connection ordered from the catalog)
- in the rear (with part of the connection to be fabricated by the installer).

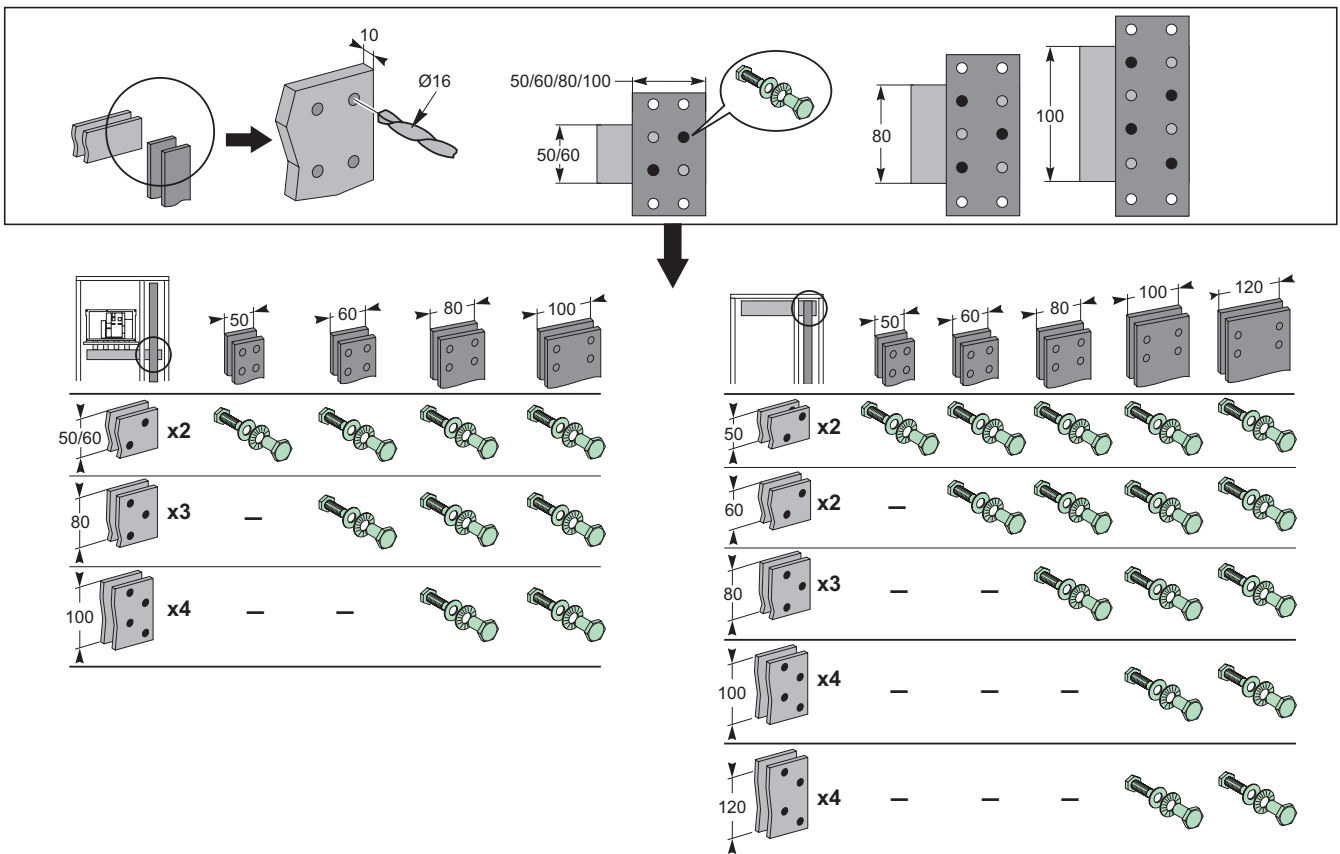
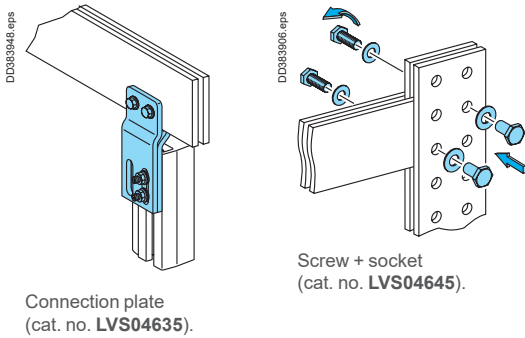
5 mm thick horizontal busbars can be connected to vertical busbars using connection plate LVS04634 (y 1000 A) or LVS04635 (> 1000 A) after drilling holes in the horizontal bars.

10 mm thick horizontal busbars can be connected to vertical busbars in 2 ways:

- using connection plate LVS04636 (≤ 1600 A) or 1600 A < LVS04637 < 2820 A without drilling holes in the horizontal bars
- or with a screw and socket assembly (LVS04645) designed for assembly on a busbar that has already been mounted.

This bolted solution requires:

- holes drilled in the bars ($\varnothing 16$ mm) for diagonal mounting of the sockets and screws
- conformity with the following mounting rules:
 - respect the overlap length (2.5 to 5 times the bar thickness)
 - tighten to a torque of 50 Nm
 - fit the recommended number of screws, depending on the bar width as explained below.



In practice, the real contact area is limited to regions in which the pressure is applied effectively. In a bolted overlap assembly, these areas are made up of the areas adjacent to the bolts, and more precisely under the washers. Salt spray tests have demonstrated these contact areas. The number of screws thus determines the effective cross-sectional area through which the current flows, which corresponds to the area under the washer (minus the screw hole). This cross-section area must be close to that of the bar.

Controlled temperature rise

Whatever the connection solution used, the quality and reliability of the contact is guaranteed, in particular with respect to temperature rise, as long as assembly is carried out according to our recommendations.

Installation of the current transformer

Practical information



Dismountable vertical busbars.

Choice of a CT model depends on the type of installation:

- insulated cables
- PrismaSeT P vertical busbars
- insulated flexible busbars
- Linergy LGY vertical busbars
- rigid busbars.

When installing a CT, we recommend that you comply with the following mounting rules:

- install current transformers:
 - on an easily dismantlable busbars or copper connections
 - between 2 connection points, by joints or bolted connection
 - place the current transformer so that the identification markings remain readable.

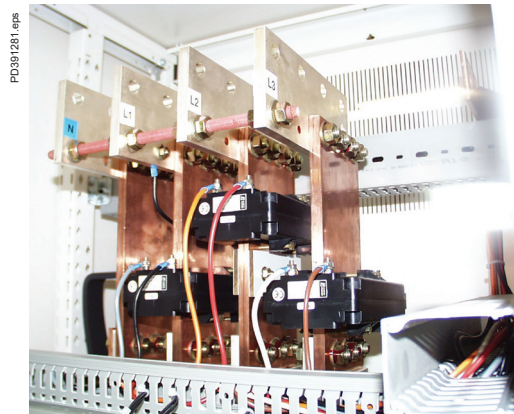
For large current transformers, a staggered installation is recommended to prevent arcing on fixing screws or excessive spacing between phase conductors.

If they are installed on vertical busbars, secure the current transformers in place to prevent them from slipping downwards (for example using a bolt or a pin)

- when there are several busbars per phase, fit spacers between the busbars in order to:
 - resist the tightening forces when installing the current transformer
 - avoid vibrations that lead to current transformer breakdowns.



CT on vertical busbars.



Spacers between the bars.

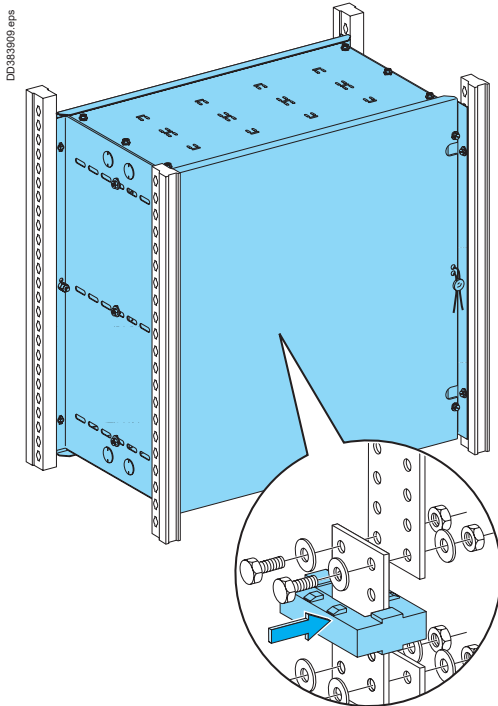
Installation of the current transformer

Practical information

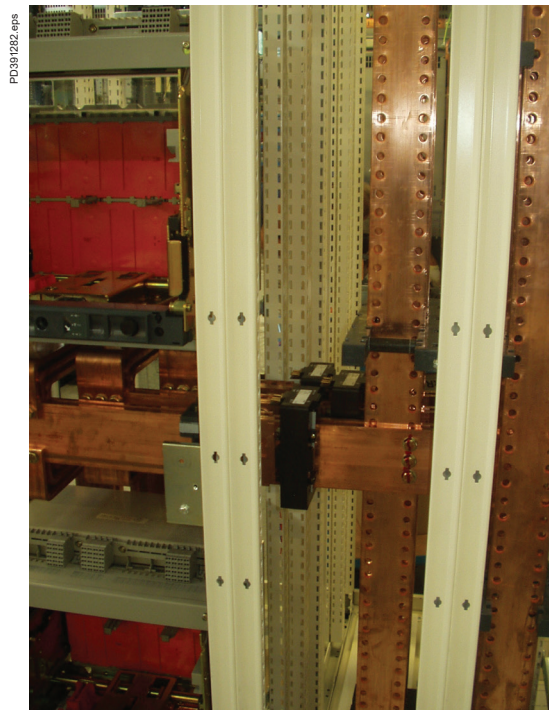
Our circuit breakers have trip units with a **built-in ammeter** (see Micrologic catalog). Their use eliminates the need for installing a CT on the busbars.

The CT casing is a solution for installation of CTs up to 1600 A. CTs can be installed in the casing (cat. no. LVS03506). It is equipped with a frame made up of 2 uprights, adjustable in depth and 2 slotted cross-members to fix the cables, install CTs or install a busbar support with 75 mm spacing. It is secured in the switchgear compartment of a 400 or 600 mm deep cubicle.

The 300 mm duct allows easier mounting of CTs. To install 2 CTs, downstream from a circuit breaker for example, it is often easier to use a 300 mm wide duct (cat. no. LVS08403 for 400 mm depth or cat. no. LVS08603 for 600 mm depth).



Sealable CT casing with current transformers on bolted connections.



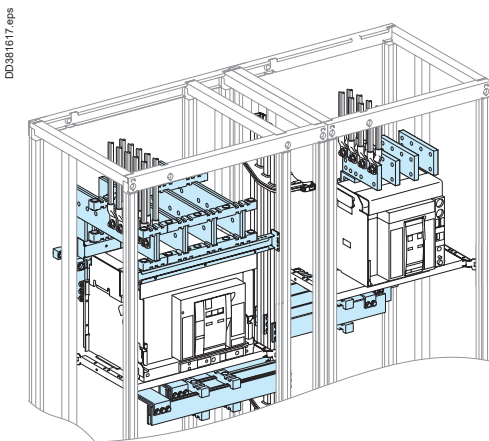
CT on circuit breaker downstream connection busbars.

Installation of source changeover systems

Practical information



Source changeover system in the same cubicle.



Source changeover system in 2 combined cubicles.



Principle of the PrismaSeT P solution

PrismaSeT P simplifies the installation of source changeover systems.

The "source changeover" solution is an integral part of the PrismaSeT P offering and is designed for all installation cases: 2 or 3 devices side by side or 2 superimposed devices.

The page opposite shows a few examples of installation in cubicles:

- 1 normal source/1 replacement source
- 2 normal sources with coupling (priority and non-priority circuits)
- 2 normal sources + 1 replacement source with coupling (priority and non-priority, circuits).

Note that our configuration software can be used to produce the switchboard front panel drawings.

For each source changeover configuration, various combinations of normal and replacement source circuit breakers and switch-disconnectors are possible:

- 1 normal source/1 replacement source:
 - NS630b to NS1600 / NS630b to NS1600
 - NT / NT
 - NT / NW
 - NW / NT
 - NW / NW
- 2 normal sources with coupling:
 - NW / NW / NW
 - NT / NT / NT
 - NW / NW / NW
- 2 normal sources + 1 replacement source with coupling:
 - NW / NW / NW / NW or NT.

Tables in the catalog indicate the possible combinations "normal" and "replacement" devices according to the rating as well as the types of interlocking available for the different types of devices.

Highly economical vertical configurations are possible even for the largest devices.

In this case, interlocking may be:

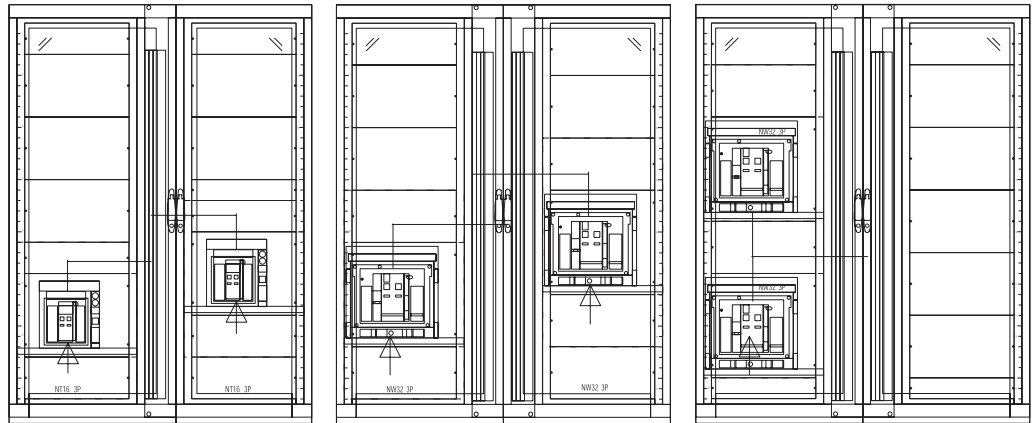
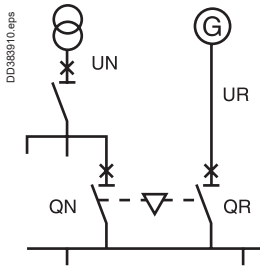
- mechanical by cable + motor mechanism
- via rotary handles (for NS630b/1600 only).

To define the number of modules required to install superimposed devices, all you have to do is add up the number of modules required for each device with:

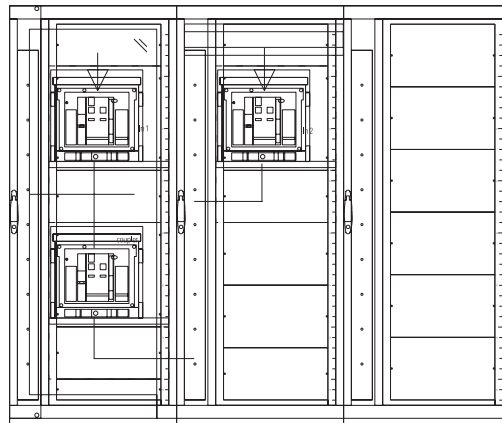
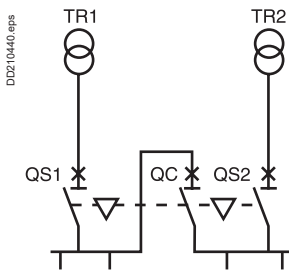
- its connections
- its cover and its partitioning.

Installation of source changeover systems

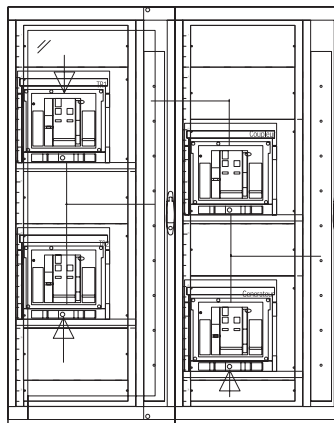
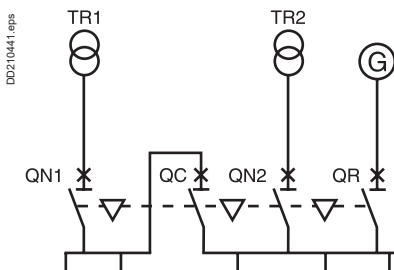
Practical information



1 normal source
1 replacement source



2 normal sources and coupling on busbars



2 normal sources
1 replacement source and coupling on busbars



Practical information

Cubicles must be stored in upright position in a dry and ventilated location, sheltered from rain, weather, dripping and running water, dust and chemical agents.

Apart from IP55 cubicles, never store enclosures outdoors, even under an awning or tarp.

The cubicles should if possible be left in their packing until they are installed. In this way they are protected against all risks that may be encountered on the site (impacts, splashes, etc.).

Acceptable storage temperatures are -25 °C to +55 °C (or up to +70 °C for short periods not exceeding 24 hours).

Given their heavy weight, cubicles should be stored on a stable, rigid and flat floor to avoid any risk of tipping during storage or handling.

Practical information

Receiving the switchboard

On receipt of the equipment and before handling it, check that the cases and packing materials used for transportation have not been damaged and that all items on the packing list have been effectively delivered.

- Even if the packing appears to be in good condition, do not hesitate to unpack the equipment in the presence of an authorised transport agent.
- Check the contents and weights of the shipping units. Thoroughly check the equipment to make sure that no damage or shocks have occurred that could impair insulation or operation.
- If necessary, check that the information on the switchboard nameplate, located on the incoming cubicle, complies with the information indicated on the delivery slip.
- In case of damage or missing parts, inform the transport agent by registered mail.
- After this inspection, refit the plastic protective cover.

PrismaSeT P switchboards are generally shipped as separate cubicles or in transport units comprising 2 cubicles side by side. Shipping units may exceptionally comprise 3 cubicles (see precautions given in the "On-site handling" chapter).

Each shipping unit is marked with:

- project number
- weight
- packing unit information (packing unit number and total quantity)
- position of the centre of gravity
- storage and handling instructions.

Standard packing

The cubicles are protected by a plastic cover in a crate.

The following accessories are attached inside the switchboard:

- installation accessories (lifting/fixing cross-members and external fixing lugs)
- preliminary installation accessories: plinth raisers
- horizontal busbar joints (if required)
- additional nuts and bolts and other mounting hardware
- panels to be fitted after on-site connection: canopies, roof panels, gland plates
- a set of drawings
- device user manuals
- a tube of Swiss white varnish.

Large withdrawable or drawout circuit breakers installed at the top of the cubicle (MasterPact and ComPact NSX) are generally delivered separately.

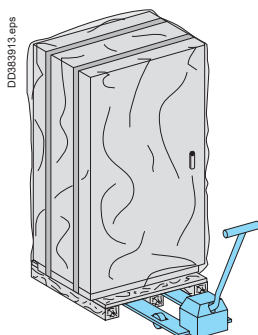
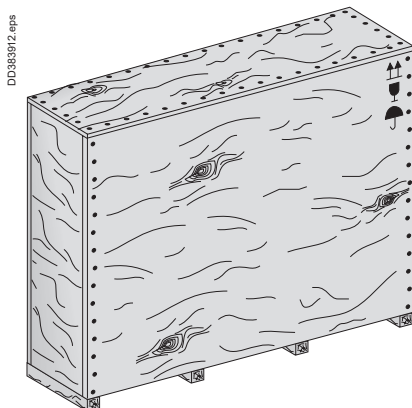
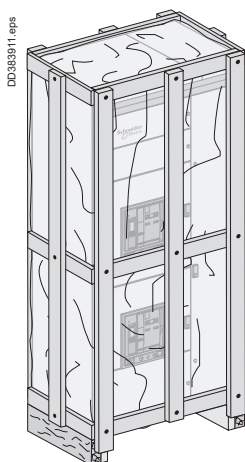
Sea packing

The cubicles are protected by a heat-sealed plastic cover containing desiccant bags and are installed in a ventilated wooden or plywood crate.

As a rule sea crates do not weigh more than 5 tons.

Sorting

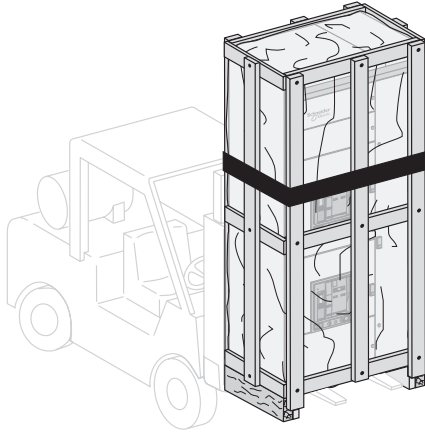
In order to sort the different types of packing material, specific waste recovery bins are required.



Handling on the site

Practical information

DD238514.eps




Final unpacking of the equipment will preferably take place just before the switchboard is installed, as close as possible to its final installation location.

As a general guideline, the weight of an average 3200 A cubicle is around 400 kg. Cubicles should always be handled in the **upright position** with care, if possible **by 2 persons**. There is a risk of overturning the cubicle due to the high position of the centre of gravity.

When moving the cubicles, always turn slowly and smoothly, avoiding all bumps and jerks. Enclosures moved using a forklift truck must be lifted carefully and held in position or fastened to the forklift truck using slings during transport.

Handling by the bottom

Wooden beams (or framework stabilizers) are generally attached to the base of the cubicle framework. This allows the cubicles to be moved using a pallet mover or forklift truck.

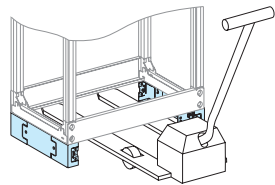
 The forks must be placed symmetrically with respect to the cubicle's axis so as not to distort the base of the frame.

For cubicles fitted with a plinth, the front and rear base panels must be removed to allow insertion of the pallet mover forks.

Cubicles must be lifted with care and held in place during transport by strapping them onto the handling machine, especially for large distances or bumpy terrain.

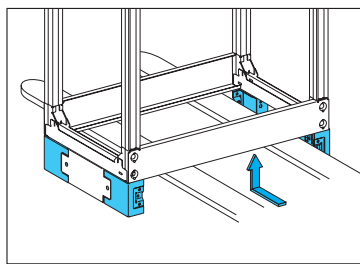
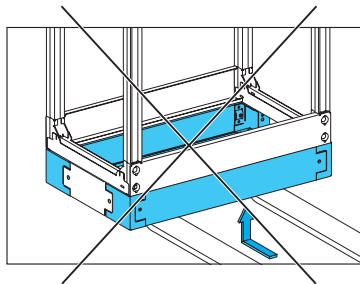
For a PrismaSeT P switchboard with a busbar compartment, lifting points must be shifted towards the busbars.

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Framework stabiliser.

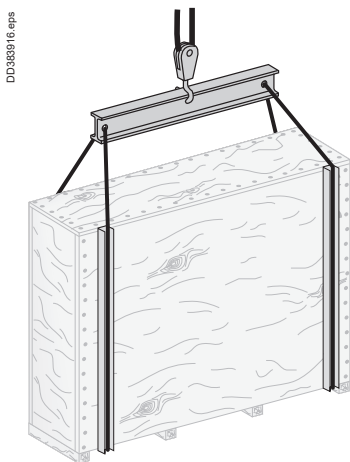
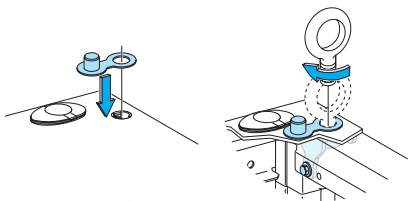
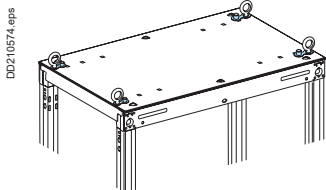
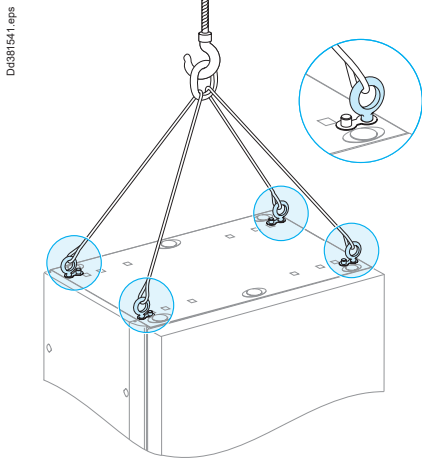
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Cubicle with base.

Handling on the site

Practical information



Handling by the top

If cranes or overhead hoists are used, only slings that are sufficiently strong and in good condition should be used.

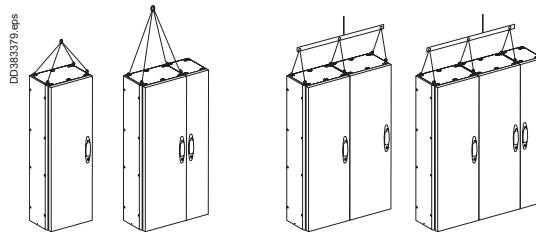
- The slings must be attached to the 4 cubicle lifting lugs.
- Adjust the length of the slings according to the switchboard dimensions so that the angle formed does not exceed the angle indicated below depending on the switchboard weight. When 2 switchgear cubicles are combined, a lifting beam must be used.
- Never tilt the cubicle during handling.
- Take care to equally distribute the load on the 4 rings.



Position of lifting rings

The lifting rings can be installed and removed without dismantling the roof. Even with the lifting rings permanently installed, the switchboard retains its original degree of protection.

For combined cubicles, only install lifting rings on cubicles with switchgear.



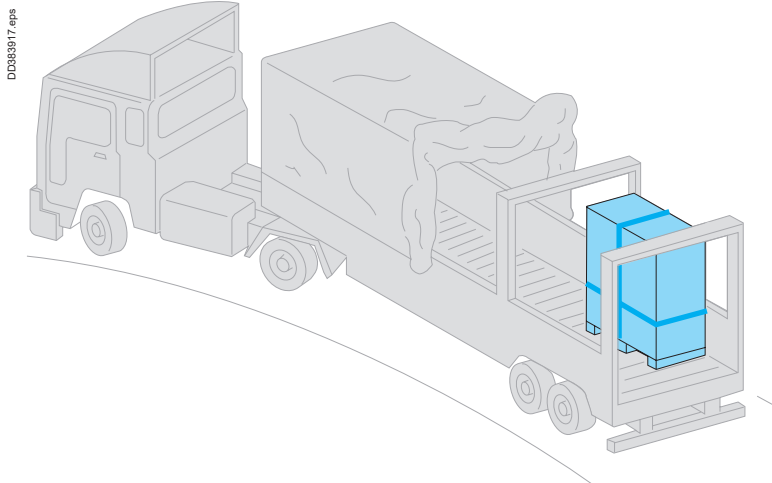
Lifting several cubicles packed together

In the special case of an assembly with more than 2 cubicles, you must:

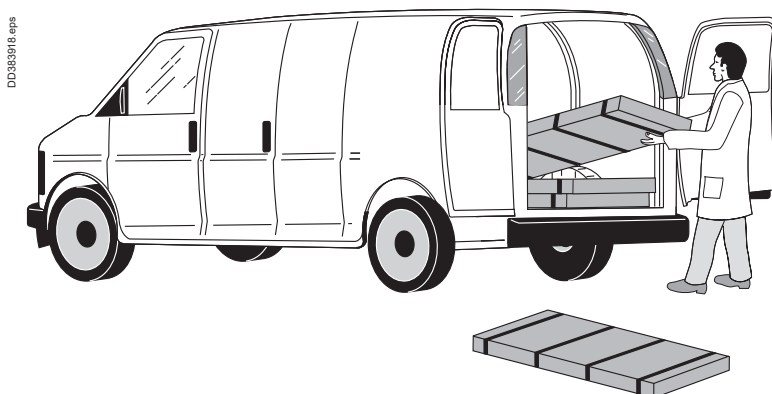
- first of all move the assembly in its original packing as close as possible to where it is to be installed
- use a lifting beam and slings to support the switchboard from underneath.

Practical information

The cubicles must be loaded vertically (stacking strongly discouraged).
After loading, check that the equipment is firmly secured in the truck to avoid any risk of damage during transport.



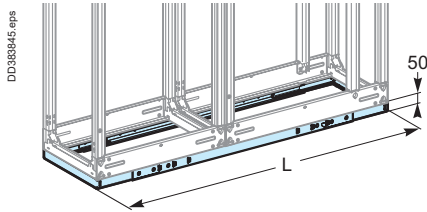
Enclosures supplied as kits should be transported horizontally if possible.



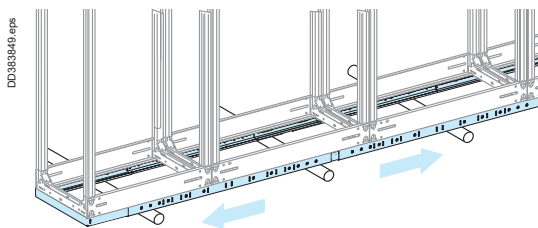
Cubicle handling and rolling base Lifting reinforcement kit for combined cubicles

Practical information

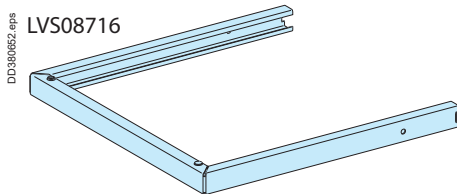
50 mm high base



LVS08714



Combined cubicles equipped with a handling base can be moved easily and safely on rollers.



LVS08716

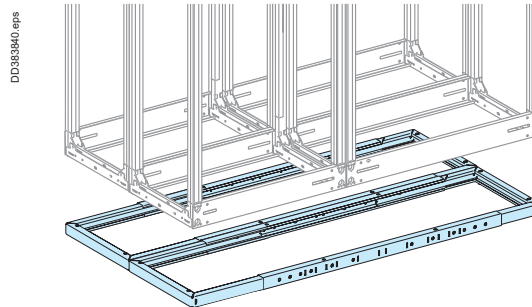
This type of base is designed to increase the rigidity of cubicle frameworks to avoid any risk of deformation during transport and handling. Five different catalog numbers offer 27 width possibilities (1200 to 3050 mm) for 400 and 600 mm deep cubicles.

- Two catalog numbers each include 2 end-pieces for handling bases for 400 and 600 mm deep cubicles respectively and the corresponding mounting hardware.
- Three catalog numbers each include 2 lengths for the sides of handling bases for 1200 to 3050 mm wide cubicles respectively and the corresponding mounting hardware.

Handling bases can be used for both side-by-side and back-to-back cubicle combinations.

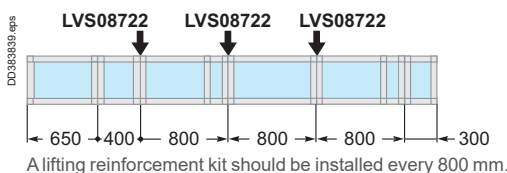
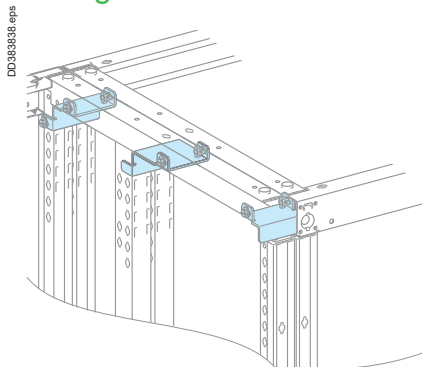
In this case, the mounting hardware for one of the sets is used.

| Designation | | Cat. no. |
|--------------------------------------|---------------------|----------|
| 2 cubicle handling base end-pieces | D = 400 mm | LVS08714 |
| | D = 600 mm | LVS08716 |
| 2 cubicle handling base side-lengths | W = 1200 to 1900 mm | - |
| | W = 2000 to 2550 mm | LVS08706 |
| | W = 2650 to 3050 mm | - |



Side-by-side and back-to-back combination of 4 cubicles equipped with a handling base.

Lifting reinforcement kit



- Kit LVS08722 is recommended for lifting combined cubicles and can be used together with handling base end-pieces LVS08714 for severe transport or handling conditions.
- Catalog number LVS08722 includes 3 reinforcement brackets for 400 or 600 mm deep cubicles and the corresponding mounting hardware.

| Designation | | Cat. no. |
|---|----------------|----------|
| Lifting reinforcement kit for combined cubicles | W = 400/600 mm | LVS08722 |



Practical information

PrismaSeT P switchboards come equipped with a special interface that allows them to be directly connected to Canalis KT trunking.

The electrical connection between the Canalis KT trunking and the PrismaSeT P switchboard is just as easy to carry out as jointing between two busbar trunking sections.

The Canalis KT interface is totally integrated in the PrismaSeT P switchboard volume.

It comprises a Canalis KT joint block and interface/circuit breaker connection terminals.

Trunking connection via the top

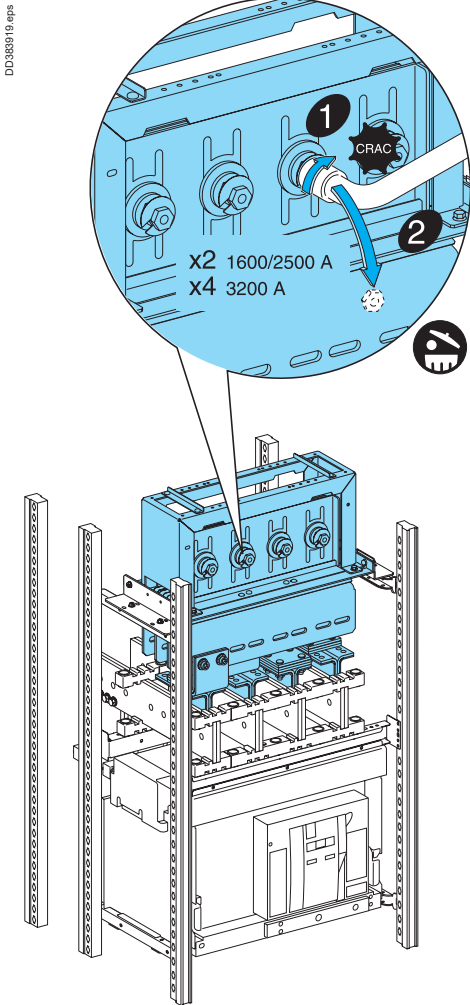
- Dismantle the roof.
- Cut out a passage for the busbar trunking.
- Adjust the guides according to the KT width that will be connected.
- Unscrew the junction block screws.
- Ensure that the busbar trunking length to be connected to the switchboard is correctly supported and that it is not resting on the interface.
- Lower the element until it is in contact with the interface frame, without bearing on it.
- Tighten the junction torque nuts. When the head breaks, the torque of 60 Nm has been reached.

⚠ In certain cases, it is recommended to only tighten the 2 middle nuts to 60 Nm and the 2 outer nuts to 10 Nm.

- A red plastic washer that is ejected when the head breaks provides visual evidence that the joint tightening operation has been carried out correctly.
- For dismantling or maintenance operations, a second head is available on the nut and can be retightened using a conventional torque wrench. The recommended tightening torque is then 60 Nm.
- Reassemble the roof.

Sealing kit

- In order to retain the original IP index, use the roof sealing kit ordered with the busbar trunking. This kit guarantees an IP52 degree of protection at the trunking passage.
- The kit is installed by cutting out the roof of the PrismaSeT P switchboard. This cut-out, which is the same dimension for all Canalis KT busbar trunking ratings, is made using the template delivered with the sealing kit.



Practical information

To ensure protection of persons, first connect the switchboard protective conductor to the earth electrode.

- Tie the cables as close as possible to the connections to avoid any mechanical stresses on the device terminals. When not using cable glands, also attach the cables near to the cubicle entry point.
- Cables must never be in contact with or passed between live conductors.
- Sharp edges of the framework must be protected where cables pass to avoid damaging the conductors.
- Comply with a minimum radius of curvature of 6 to 8 times the cable outside diameter.
- All power connections must be made with class 8.8 mounting hardware and elastic contact washers, tightened to the torque indicated in the table below.
- When connecting aluminium cables to copper terminals, use bimetal lugs or interfaces.
- Separate the different types of circuits into separate cable bundles (power, control, 48 V, 24 V, DC, AC, etc).

Cable bundles

| Cable cross-sectional area (mm ²) | Max. number of cables per bundle |
|---|----------------------------------|
| CSA ≤ 10 | 8 |
| 16 < CSA ≤ 50 | 4 |
| CSA ≥ 50 | Tie individually |

Tying the cable bundles

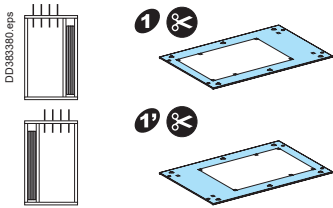
| Type of tie | Maximum lcw (kA/rms 1s) | Distance between ties (mm) |
|------------------------------|-------------------------|----------------------------|
| Width: 4.5 mm Load: 22 kg | 10 | 200 |
| | 15 | 100 |
| | 20 | 50 |
| Width: 9 mm Load: 80 kg | 20 | 350 |
| | 25 | 200 |
| | 35 | 100 |
| | 45 | 70 |

For cable sizes of 50 mm² or more, use 9 mm wide fixing ties.

Recommended tightening torque for mechanical and electrical connections with 8.8 class screws.

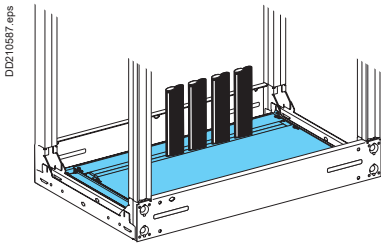
| Diameter of screw | Tightening torque (Nm) (with nut + contact washer) |
|-------------------|--|
| M3 | 1.5 |
| M4 | 3.5 |
| M5 | 7 |
| M6 | 13 |
| M8 | 28 |
| M10 | 50 |
| M12 | 75 |

Practical information



Connection via the top

- Remove the roof.
 - Drill the holes required to install cable glands or grommets.
 - Install the cable glands or grommets. They must comply with the switchboard's degree of protection (IP).
 - Refit the roof.
 - Run the cables through the glands or grommets.
 - Run the cables in the intended compartments and secure them to cable tie-bars every 400 mm.
 - Crimp the lugs and connect.
 - When sealing does not call for cable glands or when sealing is achieved by means of foam, cables can be routed in a rectangular cut-out in the roof.
- The removable cross-member simplifies insertion of cables in the cubicle.



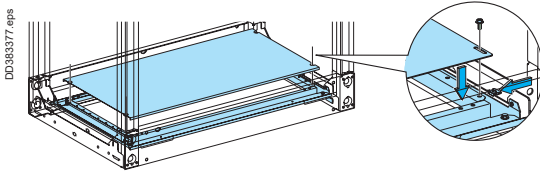
Connection via the bottom

Using a 2-part gland plate

- Drilling is not necessary with this type of gland plate.
- The gland plate avoids producing an induced current.
- The cables are protected by a polyurethane foam seal which provides a sealing function.

Using a 1-part gland plate

- Remove the bottom plate.
- Drill the appropriate holes to assemble the cable glands or grommets (1-part gland plates should not be drilled within 30 mm of the edges).
- Install the cable glands or grommets. They must comply with the required degree of protection (IP).
- Refit the bottom plate.
- Run the cables through the glands or grommets.
- Run the cables in the intended compartments and secure them to cable tie-bars every 400 mm.
- If cable glands are not used, it may be easier to prepare the cable terminations outside the switchboard (e.g. lug crimping) and then to drop them inside the cubicle having first disassembled the bottom removable cross-member.

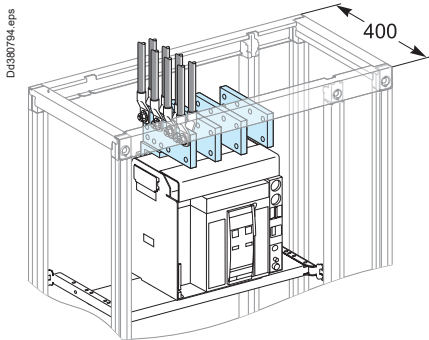


Covering an incomer

For MasterPact MT22 / MTZ1 / NS1600b-3200 / ComPacT NS630b-1600

- Disassemble the cover plate to access to the device connection terminals.
- Connect the cables, respecting the required electrical clearances.
- Cut out the part of the cover disassembled in order to let the cables pass through it, while preserving the necessary degree of protection.

Practical information



Removable upper cross-member.

Connecting to terminal extension bars

- Check that the circuit and switchgear identification indications match.
- When connections are made to terminal extensions made up of several bars for each phase, position the lugs opposite one another and insert copper spacers between the bars.
- Comply with the minimum required electrical clearances between phases of 14 mm (conforming with IEC 60439-1).
- Mark all nuts and the terminal extension bars with a dot of varnish after tightening to the defined torque.
- Remove the top cross-member of the cubicle to simplify connection of the cables to the bars.
- Tie cables of the same phase together.

Connection directly to device terminals

- When connections are made directly to the switchgear terminals, comply with the tightening torque recommended by the device manufacturer.
- Check that the length of the screws delivered with the switchgear is compatible with the lug thickness.
- Comply with the safety clearances around the switchgear devices, defined by the manufacturer to ensure correct operation.
- Refit the interphase barriers and terminal shields if applicable after connection the power cables.
- For the special case of connection with armoured cable, please consult us.

Maintenance

Frequency

- The frequency of preventive maintenance depends primarily on the operating conditions of the electrical switchboard.
- For operating conditions found in normal environments, the frequency should be as indicated in the recommended calendar.
- It may be extended if the switchboard is used in a particularly clean environment and not in an intensive manner.
- It must be reduced if the switchboard is used in a particularly aggressive environment (dust, humidity, corrosive vapours, heat) or is used intensively.
- Recommended calendar

| Type | Action | Frequency |
|-----------------------------------|--|----------------|
| General inspection | Visual checks and general cleaning. Visual check of busbars. Running tests | Once a year |
| Maintenance on functional units | Inspection of the connections | Every 5 years |
| Maintenance of ventilation system | Cleaning of filters | Every 6 months |
| Maintenance of devices | According to the respective handbooks | |

General recommendations

Before any intervention on the connections, switch off the functional unit, remove the protective screens and the partitioning sheets and boxes.

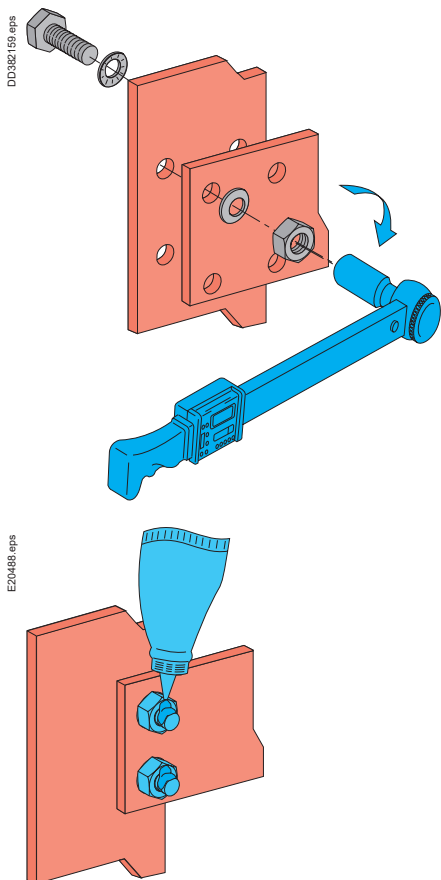
- For interventions on the connections, refer to chapter "Connections", profession Install.
- When reassembling the connections:
 - use new screws, washers, nuts of the same type (class 8.8)
 - tighten to the defined torque (refer to the tightening torques table in the chapter "Connection/Tools required")
 - apply varnish.

Method of inspection of the electrical connections

- Connections by lugs or screwed bars: presence of varnish, colour changes of a copper bar.
- Connections by cage type terminals: if necessary, re-screw to the torque defined by the manufacturer to compensate for a possible creep.

Please ensure that you consult the "General" chapter section dealing with safety instructions.

Maintenance



General inspection

Visual checks and general cleaning of the cubicles

- Check the lack of humidity and foreign bodies inside and outside the switchboard.
- Examine the outer finish. If necessary, touch up any paint scratches and replace any damaged or rusted parts.
- Clean the switchboard, preferably with a vacuum cleaner.
- If necessary, clean the ventilation system and change the filters.

Visual check of busbars

- Connections do not need to be tightened as they were already tightened to the tightening torque in workshop and the use of a contact washer compensates for possible creeps due to overheating. The presence of vernish guaranteeing correct tightening torque, is intact.
- The control of busbars connections and outgoing cables connections can be carried when disassembling the protection (out of supply) or if a hot point is detected (infrared control or thermal sensors). A hot point materialises by a change in the copper colour.
- In case of hot point see "Corrective maintenance".
- Check the condition of insulating busbars supports.

Cleaning of panel ventilation filters

Standard or fine filters

- Wash with water (preferably using a high-quality detergent).
- It is also possible to remove the dust by tapping, vacuuming or blowing with compressed air.
- If there is any oil or grease, change the filter.

Corrective maintenance

Maintenance

General

General recommendations

- Before any intervention on the connections, switch off the cubicle, remove the protective screens and the partitioning sheets and boxes.
- When reassembling the connections:
 - use new screws, washers, nuts of the same type (class 8.8)
 - tighten to the defined torque (refer to the tightening torque table in chapter "Connection/Connection of power cables")
 - apply varnish.

Hot point

Screwed connection

- Identify the cause: generally a loosening connection.
- Dismantle the assembly.
- Clean and rub down surfaces in contact (e.g. sandpaper N° 400).
- Set the connection up.

Maintenance after a fault has occurred

The high currents resulting from a fault cause damage to structures, components, busbars and cables.

Following a fault, contact your local Schneider Electric office.

Troubleshooting and interventions

For any interventions other than those described in this manual, **contact your local Schneider Electric agency.**

Life Is On



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